

**Pioneer** sound.vision.soul

# Service Manual

ORDER NO.  
**CRT4139**

CD RECEIVER

# **DEH-P6080UB**



This service manual should be used together with the following manual(s) listed below. For the parts numbers, adjustments, etc. which are not shown in this manual, refer to the following manual(s).

Model No.	Order No.	Mech. Module	Remarks
DEH-P6050UB/XN/ES	CRT4090		
CX-3240	CRT4050	S10.5COMP2-iPod/USB	CD Mech. Module:Circuit Descriptions, Mech. Descriptions, Disassembly

**PIONEER CORPORATION** 4-1, Meguro 1-chome, Meguro-ku, Tokyo 153-8654, Japan

**PIONEER ELECTRONICS (USA) INC.** P.O. Box 1760, Long Beach, CA 90801-1760, U.S.A.

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# EXPLODED VIEWS AND PARTS LIST

## PACKING(Page 36)

### PACKING SECTION PARTS LIST

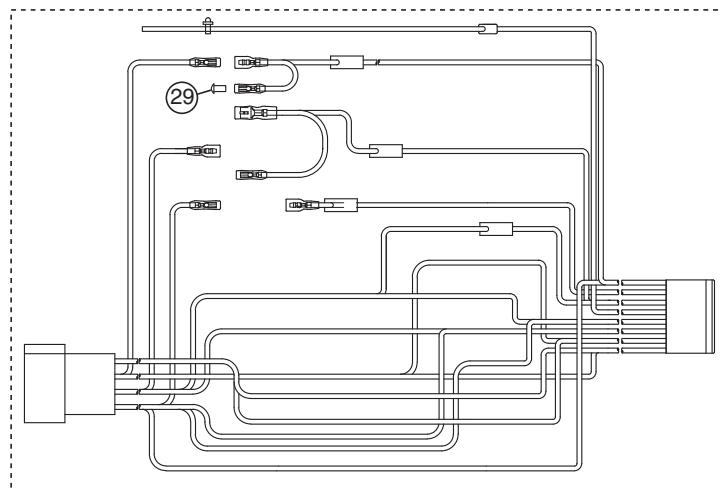
\*:Non spare part

A	Mark	No.	Description	DEH-P6050UB/XN/ES	DEH-P6080UB/X1F/BR
	*	1	Accessory Assy	CEA7317	CEA7316
		13	Unit Box	CHG6392	CHG6402
	*	14	Contain Box	CHL6392	CHL6402
	*	19	Polyethylene Bag	CEG1250	Not used
		21-1	Installation Manual	CRD4260	Not used
		21-2	Caution Card	CRP1310	Not used
B	*	21-3	Caution Card	CRP1364	Not used
	*	21-4	Caution Card	CRP1366	Not used
		22	Cord Assy	XDP7004	XDP7003
		24	CD-ROM (Operation Manual)	CPJ1217	Not used
	*		Operation Manual (CD-ROM: PDF)	CRB2573 (English)	Not used
	*		Operation Manual (CD-ROM: PDF)	CRB2574 (Spanish)	Not used
	*		Operation Manual (CD-ROM: PDF)	CRB2575 (Portuguese(B))	Not used
	*		Operation Manual (CD-ROM: PDF)	CRB2576 (Traditional Chinese)	Not used
	*		Operation Manual (CD-ROM: PDF)	CRB2577 (Arabic)	Not used
C		25	Owner's Manual Assy	CXC9693	Not used
	*		Quick Start Guide	CRB2612 (English)	Not used
	*		Quick Start Guide	CRB2613 (Spanish)	Not used
	*		Quick Start Guide	CRB2614 (Portuguese(B))	Not used
	*		Quick Start Guide	CRB2615 (Traditional Chinese)	Not used
	*		Quick Start Guide	CRB2616 (Arabic)	Not used
	*		Owner's Manual	Not used	CRB2493 (Portuguese(B))
D	*		Service Network	Not used	CRY1227
	*		Caution Card	Not used	CRN1084

## EXTERIOR(1)(Page 38)

### EXTERIOR(1) SECTION PARTS LIST

E	Mark	No.	Description	DEH-P6050UB/XN/ES	DEH-P6080UB/X1F/BR
		4	Panel	CNS9319	CNS9342
		5	Detach Grille Assy	CXC8931	CXC8933
		19	Grille Unit	CXC8874	CXC8877
		26	Cord Assy	XDP7004	XDP7003
		29	Cap	Not used	CKX-003



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## DRIVE UNIT(Page 42)

### DRIVE UNIT SECTION PARTS LIST

Mark	No.	Description	DEH-P6050UB/XN/ES	DEH-P6080UB/X1F/BR
	39	Panel Unit	CXC8925	CXC9406(Panel Assy)

C

## ELECTRICAL PARTS LIST(Page 73)

### TUNER AMP UNIT

Circuit Symbol and No.	Part Name	DEH-P6050UB/XN/ES	DEH-P6080UB/X1F/BR
IC601	IC	PEG430B8	PEG430C8

D

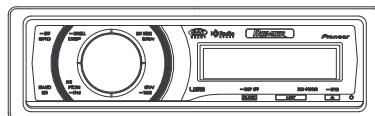
### KEYBOARD UNIT

Circuit Symbol and No.	Part Name	DEH-P6050UB/XN/ES	DEH-P6080UB/X1F/BR
IC1921	IC	PD8180A	PD8178A

E

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# Service Manual



ORDER NO.  
**CRT4090**

DEH-P600UB/XN/UC

CD RECEIVER

**DEH-P600UB**<sub>/XN/UC</sub>

**DEH-P6000UB**<sub>/XN/UC</sub>

**DEH-P6050UB**<sub>/XN/ES</sub>

**DEH-P6050UB**<sub>/XN/ES1</sub>

This service manual should be used together with the following manual(s):

Model No.	Order No.	Mech.Module	Remarks
CX-3240	CRT4050	S10.5COMP2-iPod/USB	CD Mech. Module : Circuit Descriptions, Mech. Descriptions, Disassembly



For details, refer to "Important Check Points for Good Servicing".

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# SAFETY INFORMATION

## CAUTION

A

This service manual is intended for qualified service technicians; it is not meant for the casual do-it-yourselfer. Qualified technicians have the necessary test equipment and tools, and have been trained to properly and safely repair complex products such as those covered by this manual.

Improperly performed repairs can adversely affect the safety and reliability of the product and may void the warranty. If you are not qualified to perform the repair of this product properly and safely, you should not risk trying to do so and refer the repair to a qualified service technician.

## WARNING

B

This product contains lead in solder and certain electrical parts contain chemicals which are known to the state of California to cause cancer, birth defects or other reproductive harm.

Health & Safety Code Section 25249.6 - Proposition 65

### ● Safety Precautions for those who Service this Unit.

- When checking or adjusting the emitting power of the laser diode exercise caution in order to get safe, reliable results.

### ■ Caution:

1. During repair or tests, minimum distance of 13 cm from the focus lens must be kept.
2. During repair or tests, do not view laser beam for 10 seconds or longer.

C

## CAUTION

Danger of explosion if battery is incorrectly replaced.

Replaced only with the same or equivalent type recommended by the manufacturer.

Discard used batteries according to the manufacturer's instructions.

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## [Important Check Points for Good Servicing]

In this manual, procedures that must be performed during repairs are marked with the below symbol.  
Please be sure to confirm and follow these procedures.

### 1. Product safety



Please conform to product regulations (such as safety and radiation regulations), and maintain a safe servicing environment by following the safety instructions described in this manual.

- ① Use specified parts for repair.

Use genuine parts. Be sure to use important parts for safety.

- ② Do not perform modifications without proper instructions.

Please follow the specified safety methods when modification(addition/change of parts) is required due to interferences such as radio/TV interference and foreign noise.

- ③ Make sure the soldering of repaired locations is properly performed.

When you solder while repairing, please be sure that there are no cold solder and other debris.  
Soldering should be finished with the proper quantity. (Refer to the example)

- ④ Make sure the screws are tightly fastened.

Please be sure that all screws are fastened, and that there are no loose screws.

- ⑤ Make sure each connectors are correctly inserted.

Please be sure that all connectors are inserted, and that there are no imperfect insertion.

- ⑥ Make sure the wiring cables are set to their original state.

Please replace the wiring and cables to the original state after repairs.  
In addition, be sure that there are no pinched wires, etc.

- ⑦ Make sure screws and soldering scraps do not remain inside the product.

Please check that neither solder debris nor screws remain inside the product.

- ⑧ There should be no semi-broken wires, scratches, melting, etc. on the coating of the power cord.

Damaged power cords may lead to fire accidents, so please be sure that there are no damages.  
If you find a damaged power cord, please exchange it with a suitable one.

- ⑨ There should be no spark traces or similar marks on the power plug.

When spark traces or similar marks are found on the power supply plug, please check the connection and advise on secure connections and suitable usage. Please exchange the power cord if necessary.

- ⑩ Safe environment should be secured during servicing.

When you perform repairs, please pay attention to static electricity, furniture, household articles, etc. in order to prevent injuries.  
Please pay attention to your surroundings and repair safely.

### 2. Adjustments



To keep the original performance of the products, optimum adjustments and confirmation of characteristics within specification.  
Adjustments should be performed in accordance with the procedures/instructions described in this manual.

### 3. Lubricants, Glues, and Replacement parts



Use grease and adhesives that are equal to the specified substance.  
Make sure the proper amount is applied.

### 4. Cleaning



For parts that require cleaning, such as optical pickups, tape deck heads, lenses and mirrors used in projection monitors, proper cleaning should be performed to restore their performances.

### 5. Shipping mode and Shipping screws



To protect products from damages or failures during transit, the shipping mode should be set or the shipping screws should be installed before shipment. Please be sure to follow this method especially if it is specified in this manual.

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# 1. SERVICE PRECAUTIONS

## 1.1 SERVICE PRECAUTIONS



1. You should conform to the regulations governing the product (safety, radio and noise, and other regulations), and should keep the safety during servicing by following the safety instructions described in this manual.
2. Before disassembling the unit, be sure to turn off the power. Unplugging and plugging the connectors during power-on mode may damage the ICs inside the unit.
3. To protect the pickup unit from electrostatic discharge during servicing, take an appropriate treatment (shorting-solder) by referring to "the DISASSEMBLY".
4. After replacing the pickup unit, be sure to check the grating.
5. Be careful in handling ICs. Some ICs such as MOS type are so fragile that they can be damaged by electrostatic induction.
6. EJECT LOCK MODE for CD mechanism  
 In order to enter "EJECT LOCK" mode, reset start while pressing the "DISP" and "BAND/ESC" keys together.  
 Pressing the "DISP" and "BAND/ESC" keys until monitor backlight is turned on.  
 In order to exit "EJECT LOCK" mode, follow the same steps to enter this mode.

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## 1.2 NOTES ON SOLDERING

- For environmental protection, lead-free solder is used on the printed circuit boards mounted in this unit. Be sure to use lead-free solder and a soldering iron that can meet specifications for use with lead-free solders for repairs accompanied by reworking of soldering.
- Compared with conventional eutectic solders, lead-free solders have higher melting points, by approximately 40° C. Therefore, for lead-free soldering, the tip temperature of a soldering iron must be set to around 373° C in general, although the temperature depends on the heat capacity of the PC board on which reworking is required and the weight of the tip of the soldering iron.

Compared with eutectic solders, lead-free solders have higher bond strengths but slower wetting times and higher melting temperatures (hard to melt/easy to harden).

The following lead-free solders are available as service parts:

- Parts numbers of lead-free solder:  
 GYP1006 1.0 in dia.  
 GYP1007 0.6 in dia.  
 GYP1008 0.3 in dia.

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## 2. SPECIFICATIONS

### 2.1 SPECIFICATIONS

A

#### ● DEH-P600UB/XN/UC, DEH-P6000UB/XN/UC

##### General

Power source.....	14.4 V DC (10.8 V to 15.1 V allowable)
Grounding system.....	Negative type
Max. current consumption .....	10.0 A
Backup current .....	6.0 mA or less

B

##### Dimensions (W × H × D):

###### DIN

Chassis.....	178 mm × 50 mm × 165 mm (7 in. x 2 in. x 6-1/2 in.)
Nose.....	188 mm × 58 mm × 18 mm (7-3/8 in. x 2-1/4 in. x 3/4 in.)

###### D

Chassis.....	178 mm × 50 mm × 165 mm (7 in. x 2 in. x 6-1/2 in.)
Nose.....	170 mm × 45 mm × 18 mm (6-3/4 in. x 1-3/4 in. x 3/4 in.)

C

Weight ..... 1.5 kg (3.3 lbs)

##### Audio

Maximum power output .....	50 W × 4
	50 W × 2/4 Ω + 70 W × 1/2 Ω (for subwoofer)

Continuous power output .. 22 W × 4 (50 Hz to 15 000 Hz, 5 % THD, 4 Ω load, both channels driven)

Load impedance ..... 4 Ω to 8 Ω × 4  
4 Ω to 8 Ω × 2 + 2 Ω × 1

Preout max output level ..... 4 V

##### Equalizer (7-Band Graphic Equalizer):

Frequency.....	50/125/315/800/2k/5k/12.5k Hz
Gain .....	±12 dB

##### HPF:

Frequency.....	50/63/80/100/125 Hz
Slope .....	-12 dB/oct

##### Subwoofer (mono):

Frequency.....	50/63/80/100/125 Hz
Slope .....	-18 dB/oct
Gain .....	+6 dB to -24 dB
Phase .....	Normal/Reverse

##### Bass boost:

Gain .....	+12 dB to 0 dB
------------	----------------

##### CD player

System .....	Compact disc audio system
Usable discs .....	Compact disc
Signal-to-noise ratio.....	94 dB (1 kHz) (IHF-A network)
Number of channels .....	2 (stereo)

F

MP3 decoding format .....	MPEG-1 & 2 Audio Layer 3
WMA decoding format .....	Ver. 7, 7.1, 8, 9, 10, 11 (2ch audio) (Windows Media Player)
AAC decoding format.....	MPEG-4 AAC (iTunes® encoded only) (.m4a) (Ver. 7.2 and earlier)
WAV signal format .....	Linear PCM & MS ADPCM (Non-compressed)

##### USB

Specification .....	USB 2.0 full speed
Supply current .....	500 mA
Maximum amount of memory .....	250 GB
File system.....	FAT16, FAT32
MP3 decoding format .....	MPEG-1 & 2 Audio Layer 3
WMA decoding format .....	Ver. 7, 7.1, 8, 9, 10, 11 (2ch audio) (Windows Media Player)
AAC decoding format.....	MPEG-4 AAC (iTunes® encoded only) (.m4a) (Ver. 7.2 and earlier)
WAV signal format .....	Linear PCM & MS ADPCM (Non-compressed)

##### FM tuner

Frequency range.....	87.9 MHz to 107.9 MHz
Usable sensitivity.....	8 dBf (0.7 µV / 75 Ω, mono, S/N: 30 dB)
Signal-to-noise ratio.....	75 dB (IHF-A network)

##### AM tuner

Frequency range.....	530 kHz to 1 710 kHz (10 kHz)
Usable sensitivity.....	18 µV (S/N: 20 dB)
Signal-to-noise ratio.....	65 dB (IHF-A network)

##### CEA2006 Specifications



Power output .....	14 W RMS × 4 Channels (4 Ω and ≤ 1 % THD+N)
S/N ratio .....	91 dBA (reference: 1 W into 4 Ω )



Specifications and the design are subject to modifications without notice due to improvements.

## ● DEH-P6050UB/XN/ES1 /ES1

### General

Power source ..... 14.4 V DC (12.0 V to 14.4 V allowable)

Grounding system ..... Negative type

Max. current consumption

..... 10.0 A

Backup current ..... 6.0 mA or less

Dimensions (W × H × D):

DIN

Chassis ..... 178 mm × 50 mm × 165 mm

Nose ..... 188 mm × 58 mm × 18 mm

D

Chassis ..... 178 mm × 50 mm × 165 mm

Nose ..... 170 mm × 45 mm × 18 mm

Weight ..... 1.5 kg

### Audio

Maximum power output ..... 50 W × 4

50 W × 2/4 Ω + 70 W × 1/2 Ω (for subwoofer)

Continuous power output ..... 22 W × 4 (50 Hz to 15 000 Hz, 5% THD, 4 Ω load, both channels driven)

Load impedance ..... 4 Ω to 8 Ω × 4  
4 Ω to 8 Ω × 2 + 2 Ω × 1

Preout max output level ..... 4 V

Equalizer (7-Band Graphic Equalizer):

Frequency ..... 50/125/315/800/2k/5k/12.5k Hz

Gain ..... ±12 dB

HPF:

Frequency ..... 50/63/80/100/125 Hz

Slope ..... -12 dB / oct

Subwoofer (mono):

Frequency ..... 50/63/80/100/125 Hz

Slope ..... -18 dB / oct

Gain ..... -24 dB + 6 dB to

Phase ..... Normal/Reverse

Bass boost:

Gain ..... +12 dB to 0 dB

### CD player

System ..... Compact disc audio system

Usable discs ..... Compact disc

Signal-to-noise ratio ..... 94 dB (1 kHz) (IEC-A network)

Number of channels ..... 2 (stereo)

MP3 decoding format ..... MPEG-1 & 2 Audio Layer 3

WMA decoding format ..... Ver. 7, 7.1, 8, 9, 10, 11 (2ch audio)

(Windows Media Player)

AAC decoding format ..... MPEG-4 AAC (iTunes® encoded only) (.m4a)  
(Ver. 7.2 and earlier)

WAV signal format ..... Linear PCM & MS ADPCM (Non-compressed)

### USB

Specification ..... USB 2.0 full speed

Supply current ..... 500 mA

Maximum amount of memory

..... 250 GB

File system ..... FAT16, FAT32

MP3 decoding format ..... MPEG-1 & 2 Audio Layer 3

WMA decoding format ..... Ver. 7, 7.1, 8, 9, 10, 11 (2ch audio)  
(Windows Media Player)

AAC decoding format ..... MPEG-4 AAC (iTunes® encoded only) (.m4a)  
(Ver. 7.2 and earlier)

WAV signal format ..... Linear PCM & MS ADPCM (Non-compressed)

### FM tuner

Frequency range ..... 87.5 MHz to 108.0 MHz

Usable sensitivity ..... 8 dBf(0.7 μV/75 Ω, mono, S/N: 30 dB)

Signal-to-noise ratio ..... 75 dB (IEC-A network)

### AM tuner

Frequency range ..... 531 kHz to 1 602 kHz (9 kHz)  
530 kHz to 1 640 kHz (10 kHz)

Usable sensitivity ..... 18 μV (S/N: 20 dB)

Signal-to-noise ratio ..... 65 dB (IEC-A network)

### Infrared remote control

Wavelength ..... 940 nm ± 50 nm

Output ..... typ; 12 mw/sr per Infrared LED

### Note

Specifications and the design are subject to modifications without notice due to improvements.

## 2.2 DISC/CONTENT FORMAT

A



B

C

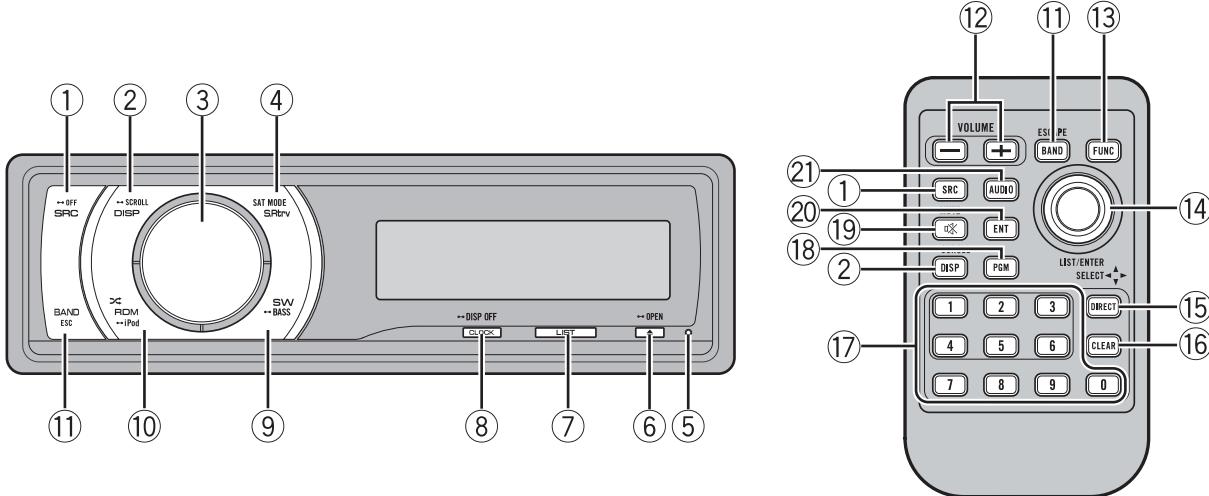
D

E

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## 2.3 PANEL FACILITIES

### ● DEH-P600UB/XN/UC, DEH-P6000UB/XN/UC



### What's What

#### Head unit

**① SRC/OFF button**

This unit is turned on by selecting a source.  
Press to cycle through all the available sources.

**② DISP/SCROLL button**

Press to select different displays.  
Press and hold to scroll the text information.

**③ MULTI-CONTROL**

Move to perform manual seek tuning, fast forward, reverse and track search controls.  
Also used for controlling functions.  
Turn to increase or decrease the volume.

**④ S.Rtrv/SAT MODE button**

Press to switch Sound Retriever settings.  
When XM tuner or SIRIUS tuner is selected as the source, press to change the channel select mode.  
When SIRIUS tuner is selected as the source, press and hold to perform the Instant Replay mode.

**⑤ RESET button**

Press to reset the microprocessor.

**⑥ EJECT/OPEN button**

Press to eject a CD from your built-in CD player.  
Press and hold to open or close the front panel.

**⑦ LIST button**

Press to display the disc title list, track title list, folder list, file list or preset channel list depending on the source.

**⑧ CLOCK/DISP OFF button**

Press to change to the clock display.  
Press and hold to turn the display indication and button illumination off or on.

**⑨ SW/BASS button**

Press to switch to subwoofer setting menu.  
When operating subwoofer menu, press to switch setting.  
Press and hold to switch to bass boost menu.

**⑩ RDM//iPod button**

Press to turn random function on or off while using CD or USB.

A While using iPod, press this button to shuffle all tracks.

Press and hold to switch the control mode while using an iPod connected USB connector of this unit.

If using the iPod with an interface adapter (CD-IB100N), press to switch the shuffle function.

**(11) BAND/ESC button**

Press to select among three FM bands and one AM band.

Press to return to the ordinary display when operating menu.

**(18) PGM button**

Press to operate the preprogrammed functions for each source.

**(19) MUTE button**

Press to turn off the sound. To turn on the sound, press again.

**(20) ENT button**

Press to change to the entertainment display.

**(21) AUDIO button**

Press to select various sound quality controls. 

## ■ Remote control

Operation is the same as when using the buttons on the head unit.

**(12) VOLUME buttons**

Press to increase or decrease the volume.

**(13) FUNCTION button**

Press to select functions.

**(14) Thumb pad**

Move to perform manual seek tuning, fast forward, reverse and track search controls. Also used for controlling functions.

Functions are the same as

MULTI-CONTROL except for volume control.

Press to display the disc title list, track title list, folder list, file list or preset channel list depending on the source.

**(15) DIRECT button**

Press to directly select the desired track.

**(16) CLEAR button**

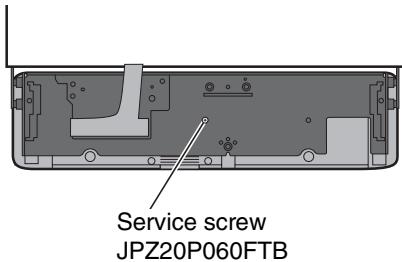
Press to cancel the input number when 0 to 9 are used.

**(17) 0 to 9 buttons**

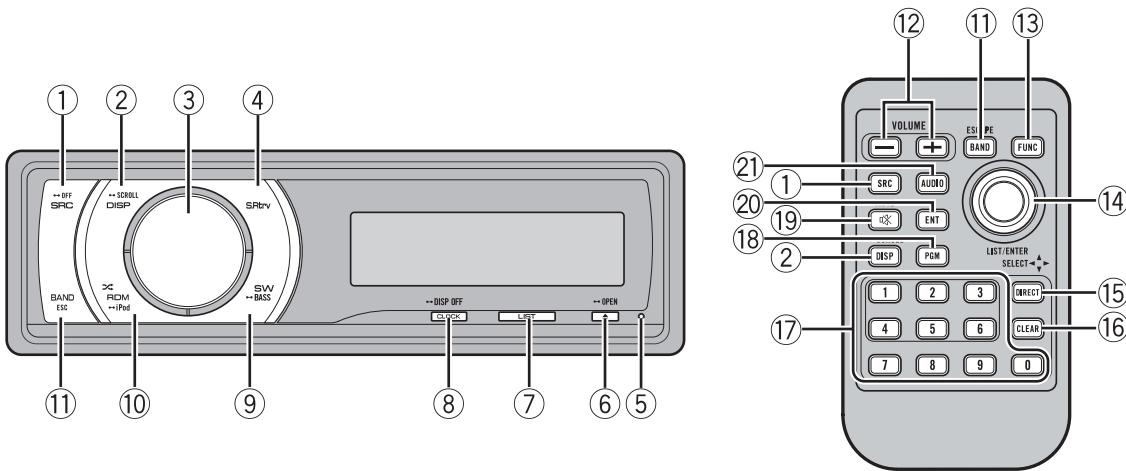
Press to directly select the desired track, preset tuning or disc. Buttons 1 to 6 can operate the preset tuning for the tuner or disc number search for the multi-CD player.

## Fastening the front panel

If you do not plan to detach the front panel, the front panel can be fastened with supplied screw.



## ● DEH-P6050UB/XN/ES, /ES1



### What 's What

#### Head unit

① SRC/OFF button

This unit is turned on by selecting a source.  
Press to cycle through all the available sources.

② DISP/SCROLL button

Press to select different displays.  
Press and hold to scroll the text information.

③ MULTI-CONTROL

Move to perform manual seek tuning, fast forward, reverse and track search controls.  
Also used for controlling functions.  
Turn to increase or decrease the volume.

④ S.Rtrv button

Press to switch Sound Retriever settings.

⑤ RESET button

Press to reset the microprocessor.

⑥ EJECT/OPEN button

Press to eject a CD from your built-in CD player.  
Press and hold to open or close the front panel.

⑦ LIST button

Press to display the disc title list, track title list, folder list, file list or preset channel list depending on the source.

⑧ CLOCK/DISP OFF button

Press to change to the clock display.  
Press and hold to turn the display indication and button illumination off or on.

⑨ SW/BASS button

Press to switch to subwoofer setting menu.  
When operating subwoofer menu, press to switch setting.  
Press and hold to switch to bass boost menu.

⑩ RDM/ $\infty$ /iPod button

Press to turn random function on or off while using CD or USB.  
While using iPod, press this button to shuffle all tracks.  
Press and hold to switch the control mode while using an iPod connected USB connector of this unit.  
If using the iPod with an interface adapter (CD-IB100N), press to switch the shuffle function.

⑪ BAND/ESC button

Press to select among three FM bands and one AM band.  
Press to return to the ordinary display when operating menu.

#### Remote control

Operation is the same as when using the buttons on the head unit.

A

**(12) VOLUME buttons**

Press to increase or decrease the volume.

**(13) FUNCTION button**

Press to select functions.

**(14) Thumb pad**

Move to perform manual seek tuning, fast forward, reverse and track search controls. Also used for controlling functions.

Functions are the same as

MULTI-CONTROL except for volume control.

Press to display the disc title list, track title list, folder list, file list or preset channel list depending on the source.

**(15) DIRECT button**

Press to directly select the desired track.

**(16) CLEAR button**

Press to cancel the input number when 0 to 9 are used.

**(17) 0 to 9 buttons**

Press to directly select the desired track, preset tuning or disc. Buttons 1 to 6 can operate the preset tuning for the tuner or disc number search for the multi-CD player.

**(18) PGM button**

Press to operate the preprogrammed functions for each source.

C

**(19) MUTE button**

Press to turn off the sound. To turn on the sound, press again.

D

**(20) ENT button**

Press to change to the entertainment display.

E

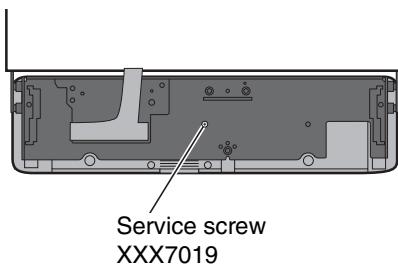
**(21) AUDIO button**

Press to select various sound quality controls. ■

F

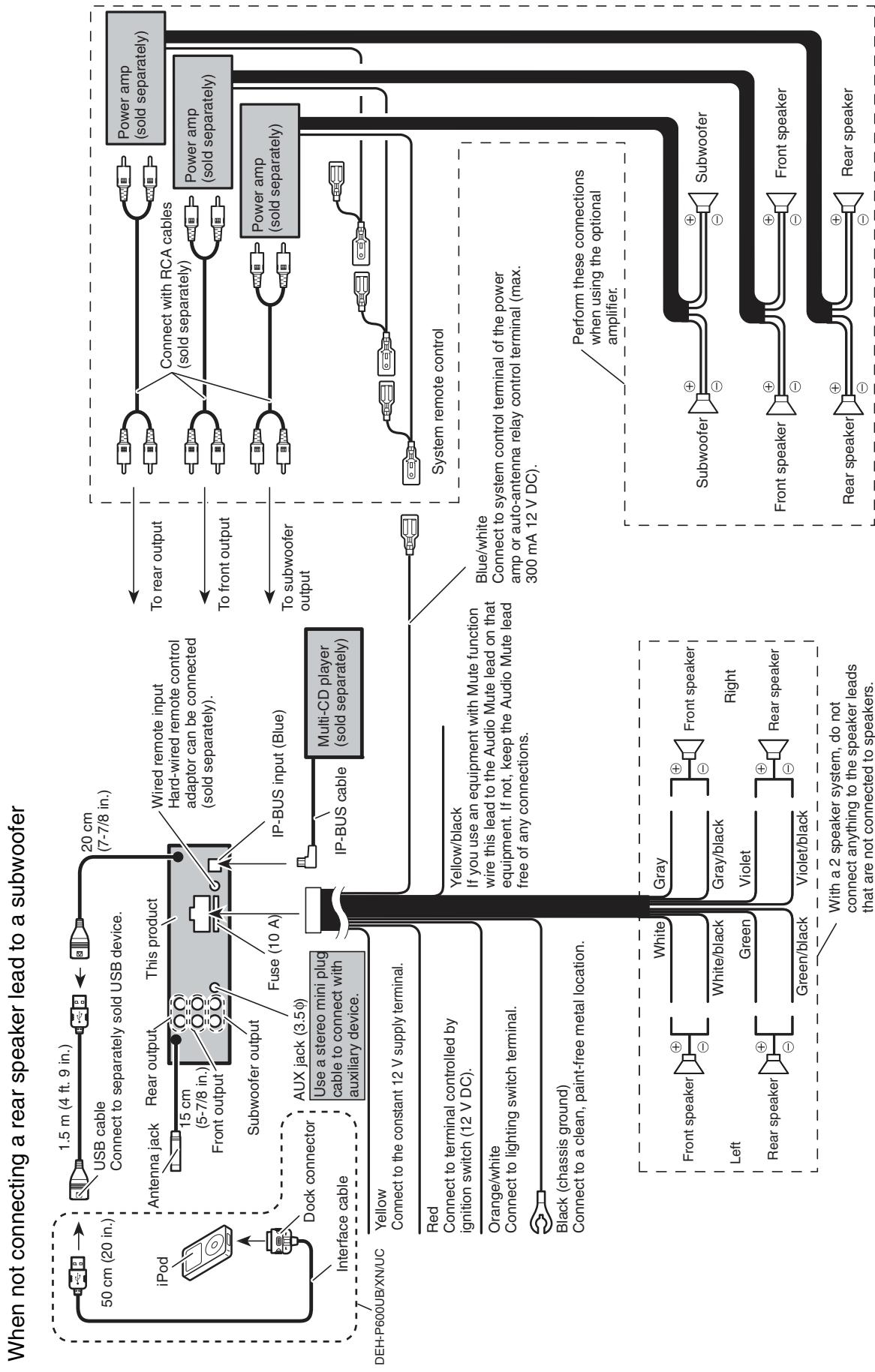
**Fastening the front panel**

If you do not plan to detach the front panel, the front panel can be fastened with supplied screw.

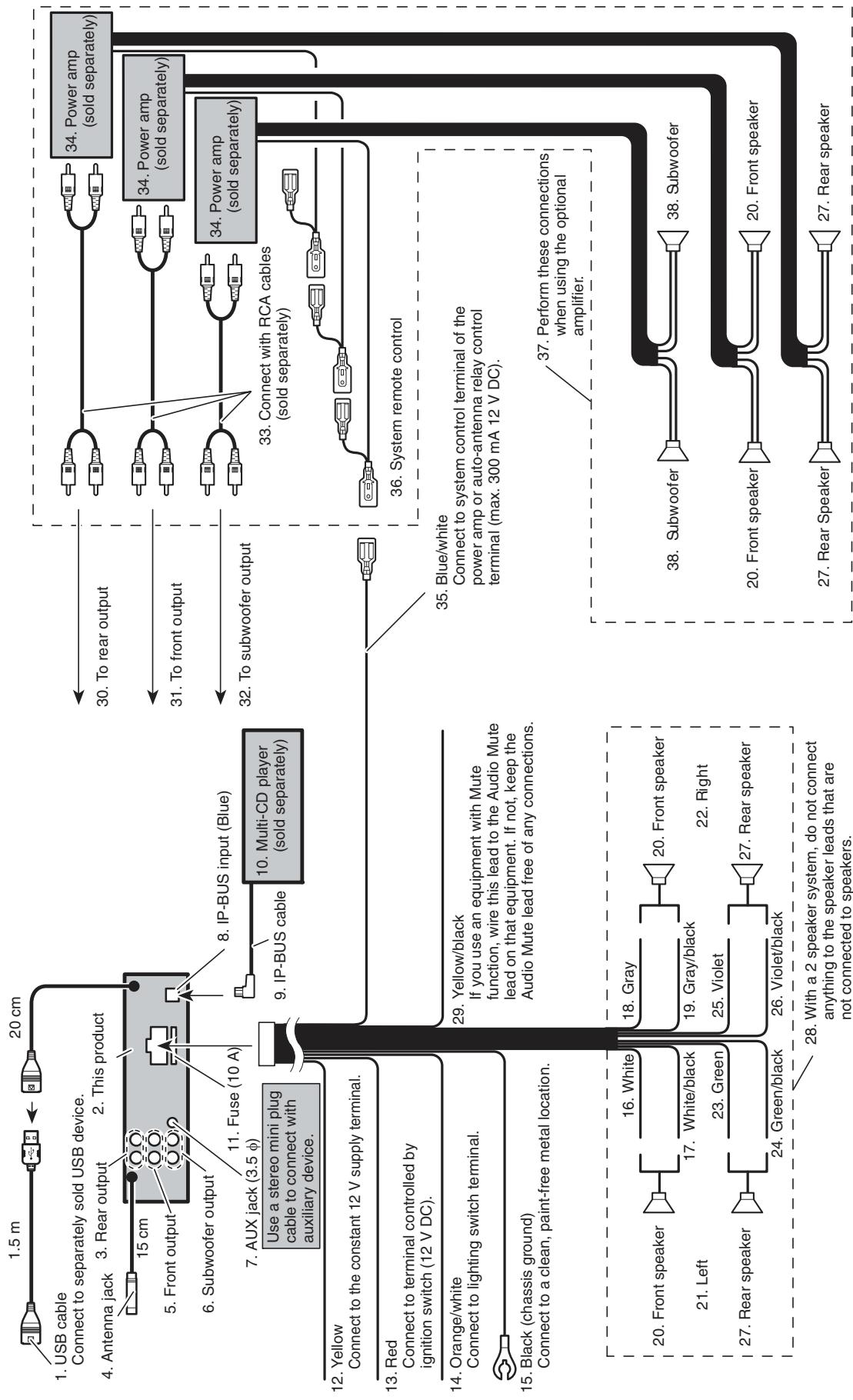


## 2.4 CONNECTION DIAGRAM

- DEH-P600UB/XN/UC, DEH-P6000UB/XN/UC



## ● DEH-P6050UB/XN/ES, /ES1



### 3. BASIC ITEMS FOR SERVICE

#### 3.1 CHECK POINTS AFTER SERVICING

To keep the product quality after servicing, please confirm following check points.

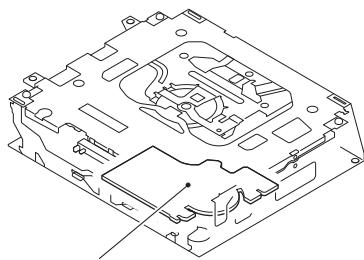
No.	Procedures	Item to be confirmed
1	Confirm whether the customer complain has been solved. If the customer complain occurs with the specific media, use it for the operation check.	The customer complain must not be reappeared. Display, audio and operations must be normal.
2 CD	Play back a CD. (Track search)	No malfunction on display, audio and operation. Display, audio and operations must be normal.
3 FM/AM tuner	Check FM/AM tuner action. (Seek, Preset) Switch band to check both FM and AM.	Display, audio and operations must be normal.
4	Check whether no disc is inside the product.	The media used for the operating check must be ejected.
5	Appearance check	No scratches or dirt on its appearance after receiving it for service.

See the table below for the items to be checked regarding audio:

Item to be checked regarding audio
Distortion
Noise
Volume too low
Volume too high
Volume fluctuating
Sound interrupted

## 3.2 PCB LOCATIONS

A

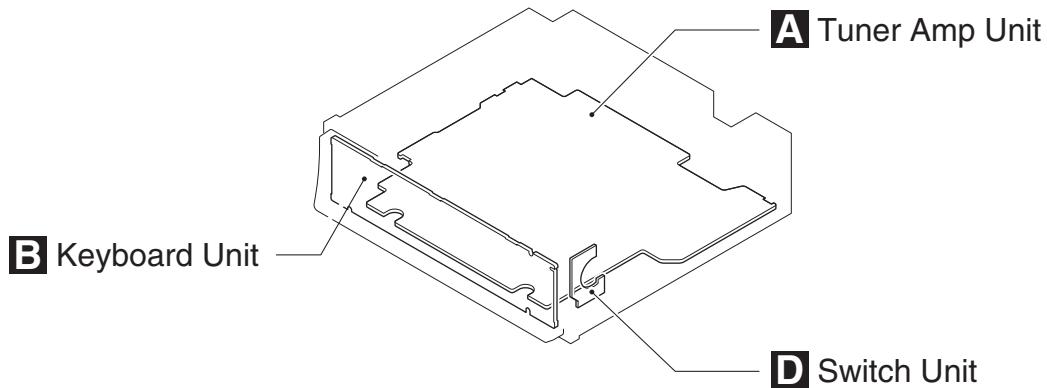


B

**C** CD Core Unit  
(S10.5COMP2-iPod)

Unit Number : CWN3149(P600UB)  
 Unit Number : CWN3148(P6000UB)  
 Unit Number : CWN3150(P6050UB)  
 Unit Name : Tuner Amp Unit  
 Unit Number : (P600UB)  
 Unit Number : (P6000UB)  
 Unit Number : (P6050UB)  
 Unit Name : Keyboard Unit  
 Unit Number : CWX3526  
 Unit Name : CD Core Unit  
 (S10.5COMP2-iPod)  
 Unit Number : CWS1389  
 Unit Name : Switch Unit

C



## 3.3 JIGS LIST

D

### ● Jigs List

Name	Jig No.	Remarks
Test Disc	TCD-782	Checking the grating
L.P.F.		Checking the grating (Two pieces)

E

### ● Grease List

Name	Grease No.	Remarks
Grease	GEM1024	Drive Unit , CD Mechanism Module
Grease	GEM1041	Drive Unit
Grease	GEM1045	CD Mechanism Module
Grease	GEM1069	Drive Unit

F

### 3.4 CLEANING



A

Before shipping out the product, be sure to clean the following portions by using the prescribed cleaning tools:

Portions to be cleaned	Cleaning tools
CD pickup lenses	Cleaning liquid : GEM1004
	Cleaning paper : GED-008

B

C

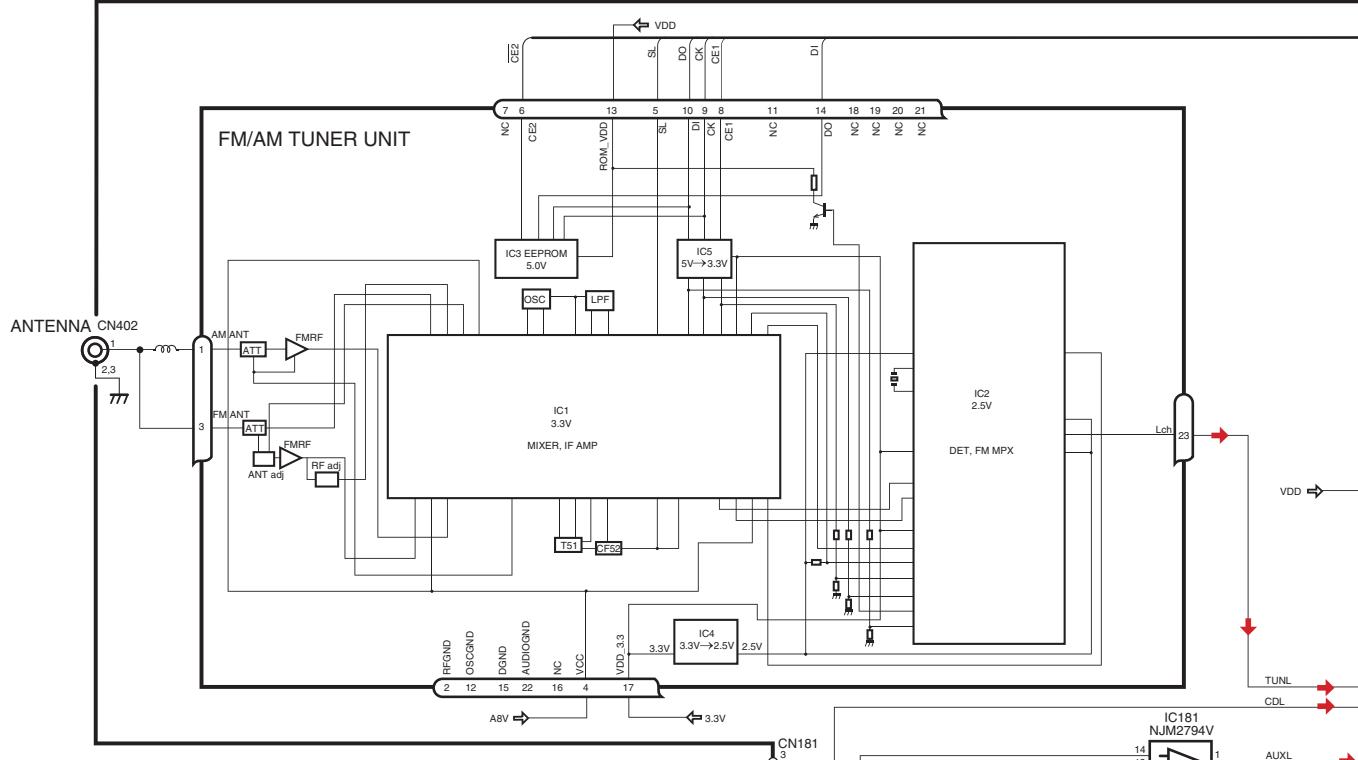
D

E

F

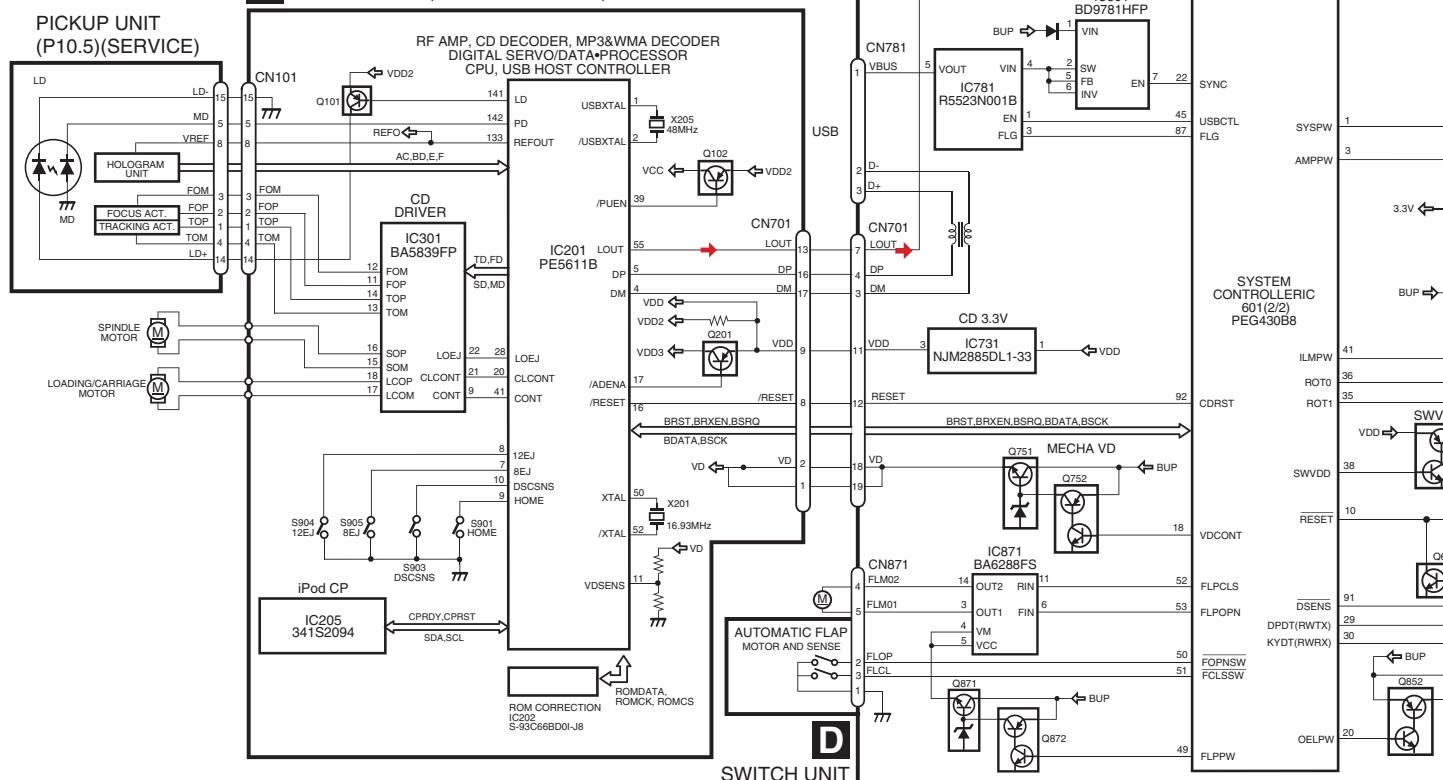
# 4. BLOCK DIAGRAM

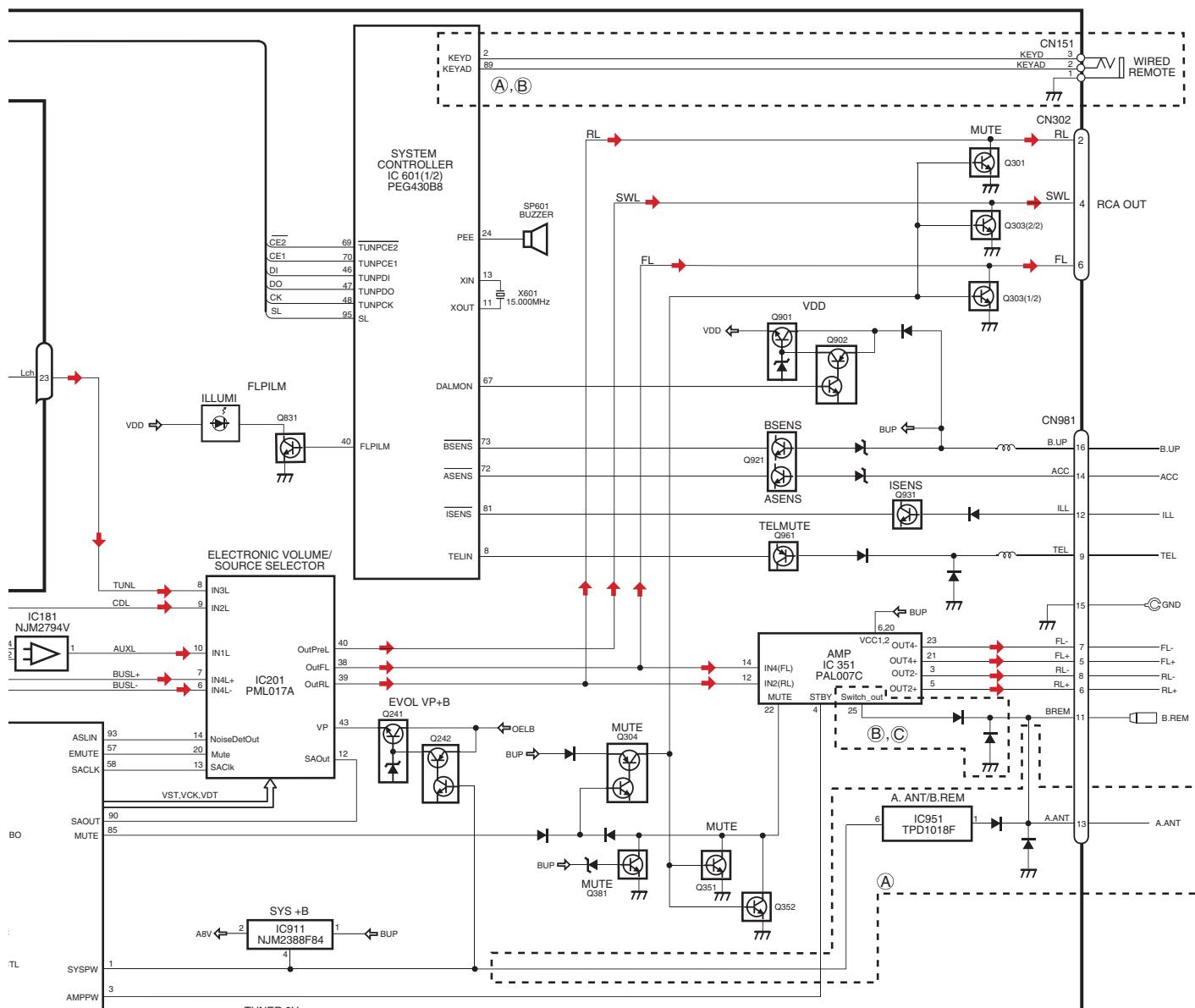
**A** TUNER AMP UNIT



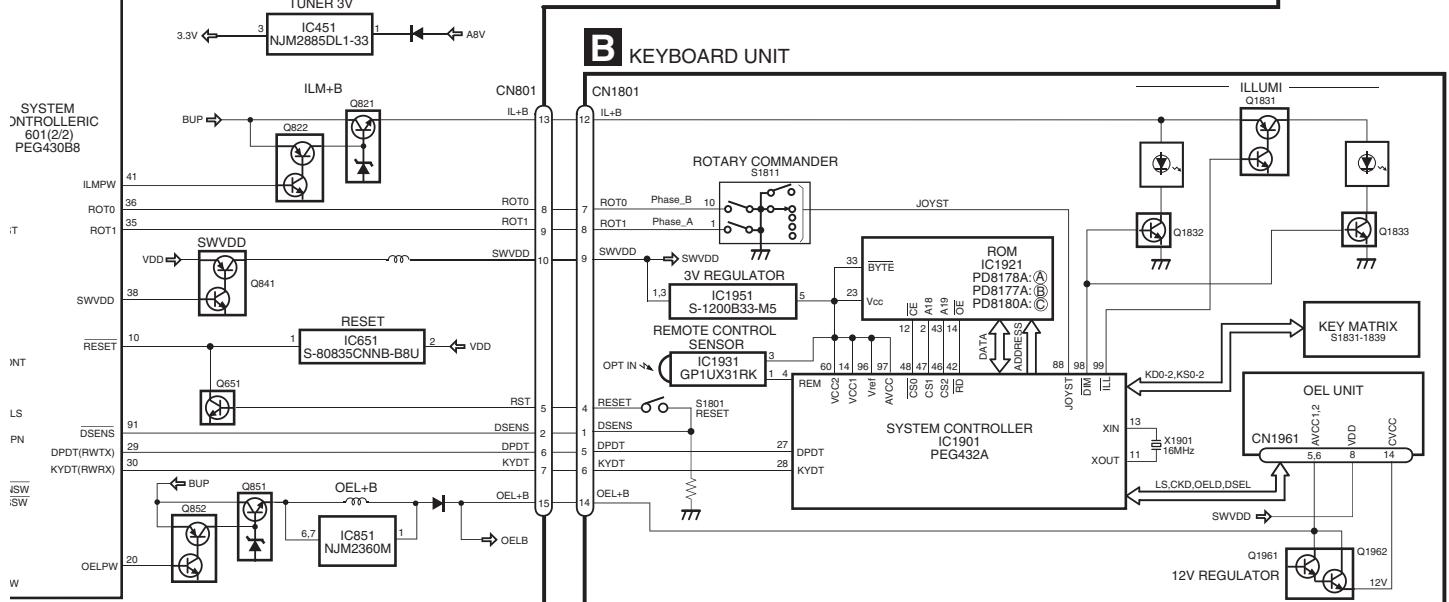
- (A) : DEH-P600UB/XN/UC
- (B) : DEH-P6000UB/XN/UC
- (C) : DEH-P6050UB/XN/ES1, /ES

**C** CD CORE UNIT(S10.5COMP2-iPod)

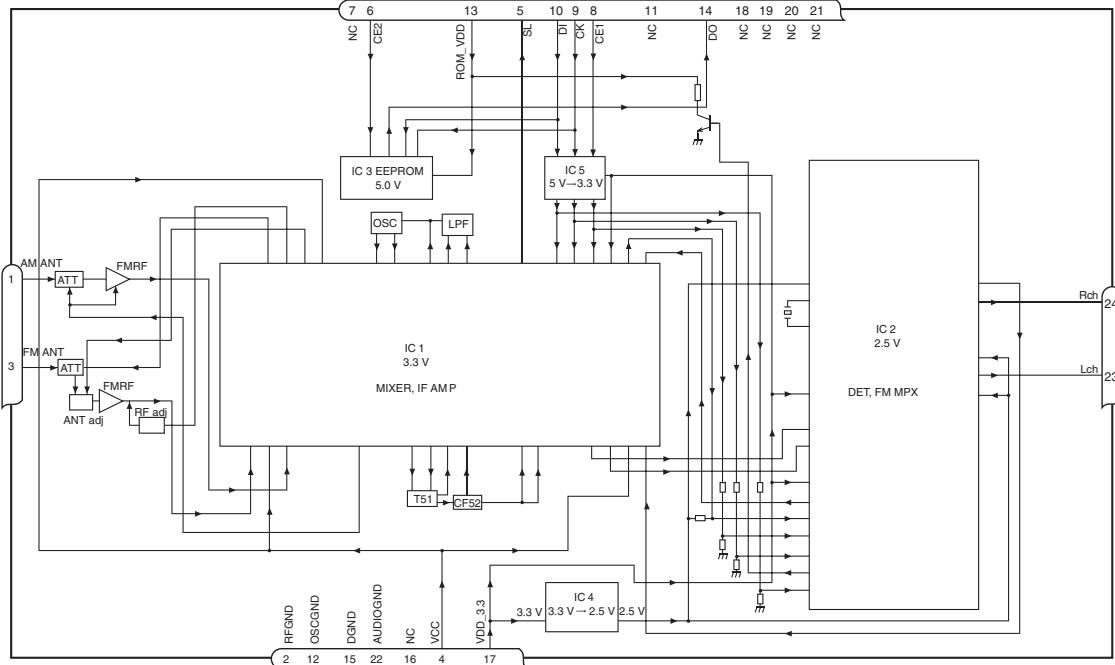




### B KEYBOARD UNIT



## ● FM/AM Tuner Unit



A

B

C

D

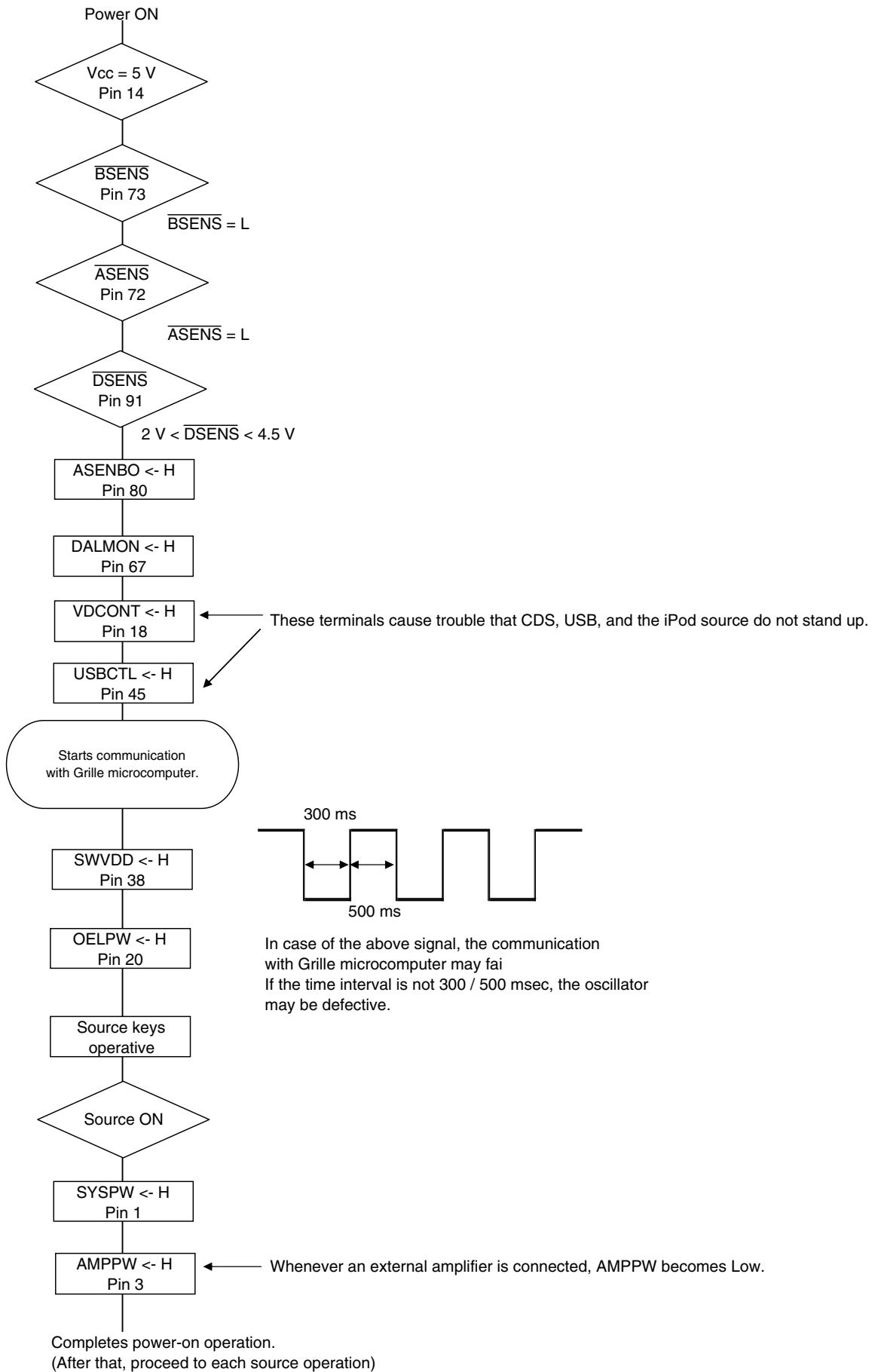
E

F

No.	Symbol	I/O	Explain
1	AMANT	I	AM antenna input high impedance AMANT pin is connected with an all antenna by way of 4.7 $\mu$ H. (LAU type inductor) A series circuit including an inductor and a resistor is connected with RF ground for the countermeasure against the hum of power transmission line.
2	RFGND		RF ground
3	FMANT	I	Input of FM antenna 75 $\Omega$ Surge absorber (DSP-201M-S00B) is necessary.
4	VCC		The power supply for analog block. D.C 8.4 V $\pm$ 0.3 V
5	SL	O	signal level
6	CE2	I	chip enable-2 Chip enable for EEPROM "Low" active input
7	NC		non connection
8	CE1	I	chip enable-1 Chip enable for AF•RF "High" active
9	CK	I	clock
10	DI	I	data in
11	NC		non connection
12	OSCGND		osc ground
13	ROM_VDD		power supply Power supply for EEPROM pin 13 is connected with a power supply of micro computer.
14	DO	O	data out
15	DGND		digital ground
16	NC		non connection
17	VDD_3.3		power supply The power supply for digital block. 3.3 V $\pm$ 0.2 V
18	NC		non connection
19	NC		non connection
20	NC		non connection
21	NC		non connection
22	AUDIOGND		audio ground
23	L ch	O	L channel output FM stereo "L-ch" signal output or AM audio output
24	R ch	O	R channel output FM stereo "R-ch" signal output or AM audio output

## 5. DIAGNOSIS

### 5.1 OPERATIONAL FLOWCHART



## 5.2 ERROR CODE LIST

### ● Error Messages

A If a CD is not operative or stopped during operation due to an error, the error mode is turned on and cause(s) of the error is indicated with a corresponding number. This arrangement is intended at reducing nonsense calls from the users and also for facilitating trouble analysis and repair work in servicing.

#### (1) Basic Indication Method

■ 1) When SERRORM is selected for the CSMOD (CD mode area for the system), error codes are written to DMIN (minutes display area) and DSEC (seconds display area). The same data is written to DMIN and DSEC. DTNO remains in blank as before.

#### B 2) Head unit display examples

Depending on display capability of LCD used, display will vary as shown below. xx contains the error number.

8-digit display	6-digit display	4-digit display
ERROR-xx	ERR-xx	E-xx

#### (2) Error Code List

Code	Class	Displayed error code	Description of the code and potential cause(s)
10	Electricity	Carriage Home NG SERVO LSI Communication Error	CRG can't be moved to inner diameter. CRG can't be moved from inner diameter. -> Failure on home switch or CRG move mechanism. Communication error between microcomputer and SERVO LSI.
11	Electricity	Focus Servo NG	Focusing not available. -> Stains on rear side of disc or excessive vibrations on REWRITABLE.
12	Electricity	Spindle Lock NG Subcode NG	Spindle not locked. Sub-code is strange (not readable). -> Failure on spindle, stains or damages on disc, or excessive vibrations. A disc not containing CD-R data is found. Turned over disc are found, though rarely. CD signal error.
17	Electricity	Setup NG	AGC protection doesn't work. Focus can be easily lost. -> Damages or stains on disc, or excessive vibrations on REWRITABLE.
30	Electricity	Search Time Out	Failed to reach target address. -> CRG tracking error or damages on disc.
44	Electricity	ALL Skip	Skip setting for all track. (CD-R/RW)
50	Mechanism	CD On Mech Error	Mechanical error during CD ON. -> Defective loading motor, mechanical lock and mechanical sensor.
A0	System	Power Supply NG	Power (VD) is ground faulted. -> Failure on SW transistor or power supply (failure on connector).

E Remarks: Mechanical errors are not displayed (because a CD is turned off in these errors).

Unreadable TOC does not constitute an error. An intended operation continues in this case.

Upper digits of an error code are subdivided as shown below:

1x: Setup relevant errors, 3x: Search relevant errors, Ax: Other errors.

## iPod error

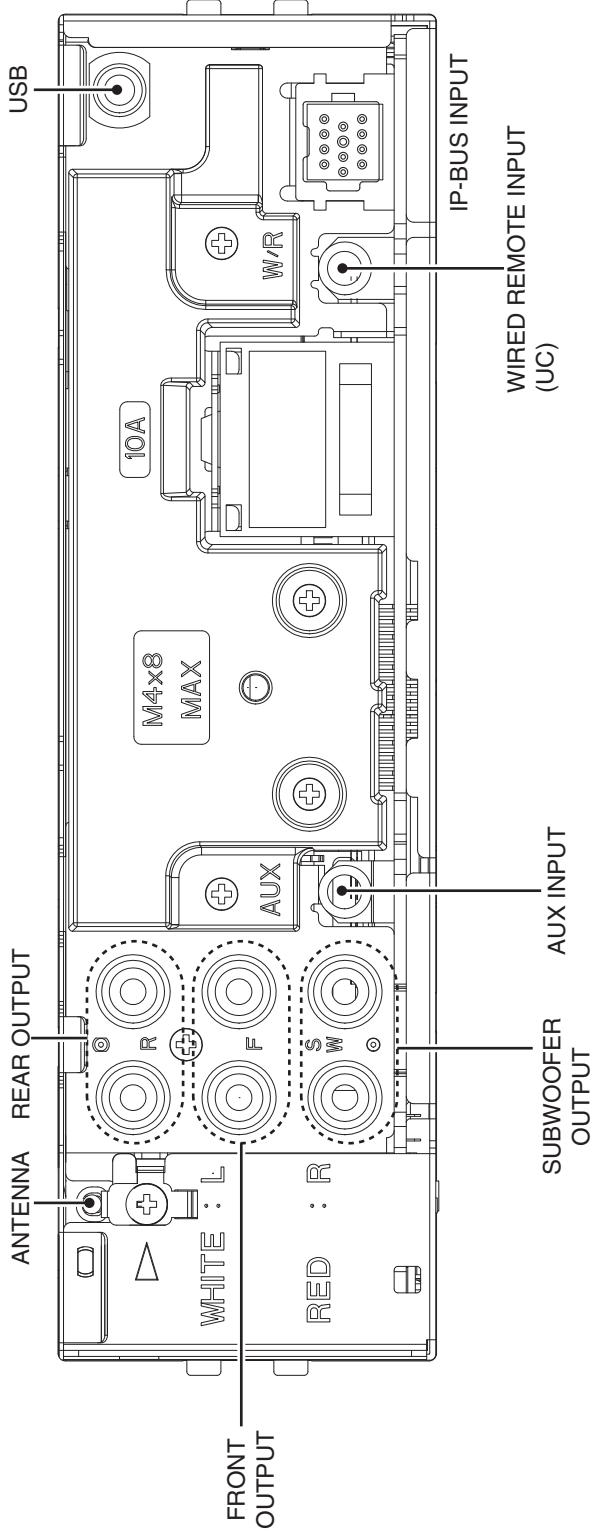
Message	Cause	Action
NO SONGS	No songs in the iPod	Transfer the songs to the iPod.
STOP	No songs in the current list	Select a list that contains the songs.
ERROR-19	Communication failure	Disconnect the cable from the iPod. Once the iPod main menu is displayed, connect the cable again.
	iPod failure	Reset the iPod.
ERROR-18 N/A USB	Old version of the iPod	Update the iPod version.
	iPod failure	Reset the iPod.
ERROR-16	Old version of the iPod	Update the iPod version.
	iPod failure	Disconnect the cable from the iPod. Once the iPod main menu is displayed, connect the cable again.
		Reset the iPod.
		Turn the ignition switch OFF and ON.
		Malfunction of iPod recognition IC.
CHECK USB	iPod is not charged but operates correctly.	Check if the connection cable for the iPod shorted out. After checking, switch the ignition key OFF and ON, or disconnect the iPod and connect again.

## USB error

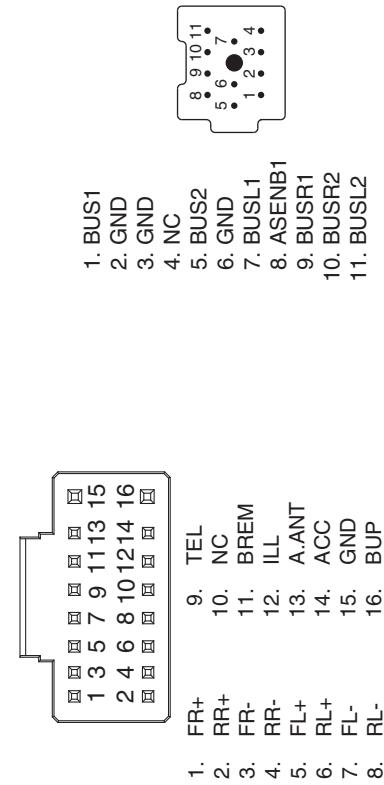
Message	Cause	Action
NO AUDIO	No songs in the USB device	Transfer the songs to the USB device.
	USB memory with security enabled is connected	Follow the USB memory instructions to disable the security.
TRK SKIPPED	The connected USB device contains WMA files that are protected by DRM	Play an audio file not protected by DRM.
PROTECT	All the files in the USB device are protected by DRM	Transfer the songs not protected by DRM to the USB device.
N/A USB	The connected USB device is not supported by this unit	Connect a USB device that is compliant as a Mass Storage Class.
CHK USB	The USB connector or the USB cable is short-circuited	Confirm the USB connector or the USB cable.
	The connected USB device consumes more than 500 mA (max. allowable current)	Confirm the USB device.
ERROR-19	Communication failure	Turn the ignition switch OFF and ON.
		Disconnect the USB device, and connect it again.
		Change to a different source. Then, return to the USB.
ERROR-23	USB device is not formatted with FAT16 or FAT32	Format the USB device with FAT16 or FAT32.

## 5.3 CONNECTOR FUNCTION DESCRIPTION

A



B



C

D

E

F

# 6. SERVICE MODE

## 6.1 TEST MODE

### Double Key Allocation List

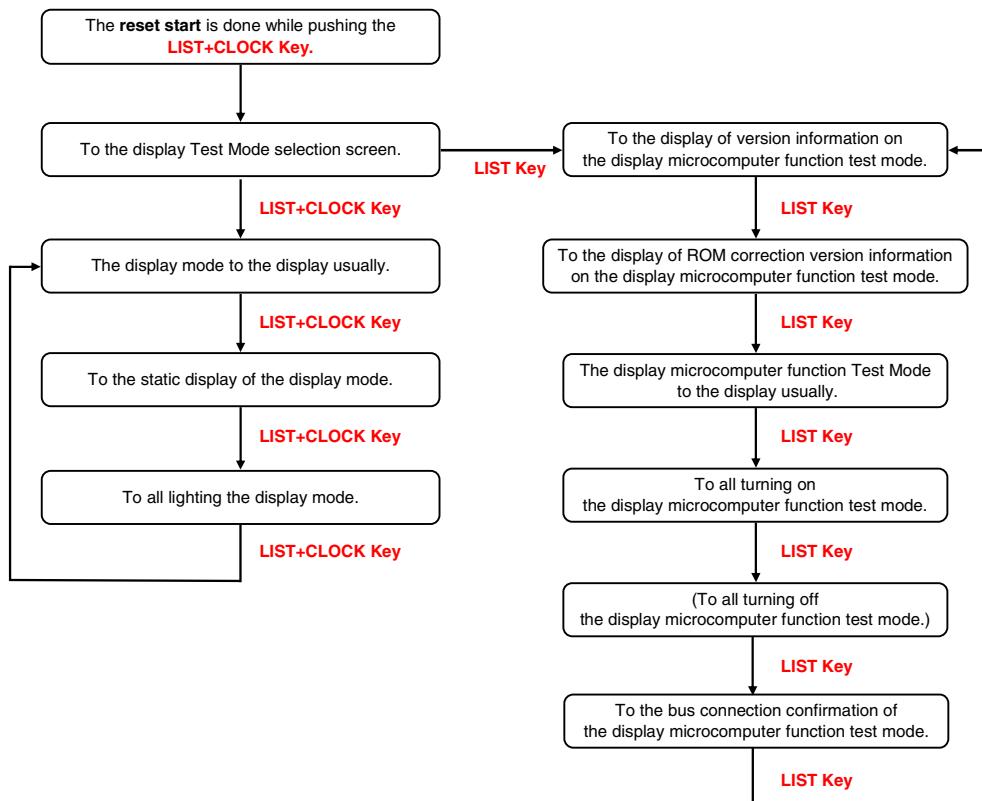
Double Key	Mode Name
S.Rtrv + DISP	CD Test Mode
LIST + CLOCK	Display Test Mode
DISP + BAND/ESC	(Eject Lock)

The mode in ( ) is except test mode.

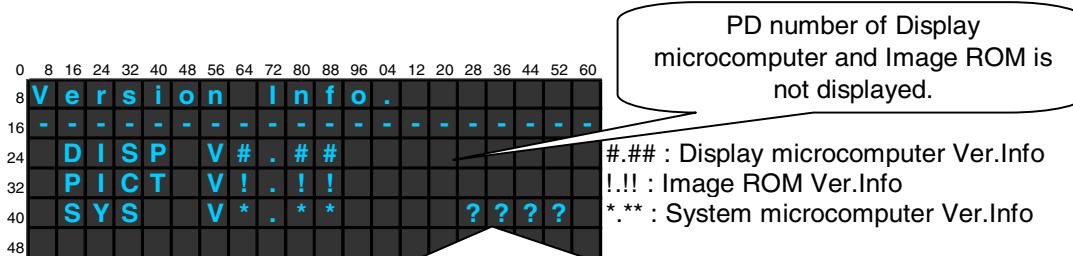
## 6.2 DISPLAY TEST MODE

### Display Test Mode

Restarted pushing reset while pushing the **LIST+CLOCK key** then the screen is changed to the display test mode.



### Version Information Display



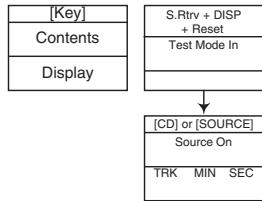
<Unit number display>

When the Unit number is CWW1453, it is displayed as 1453.  
(Only the number from 0 to 9 can be displayed by four digits.)

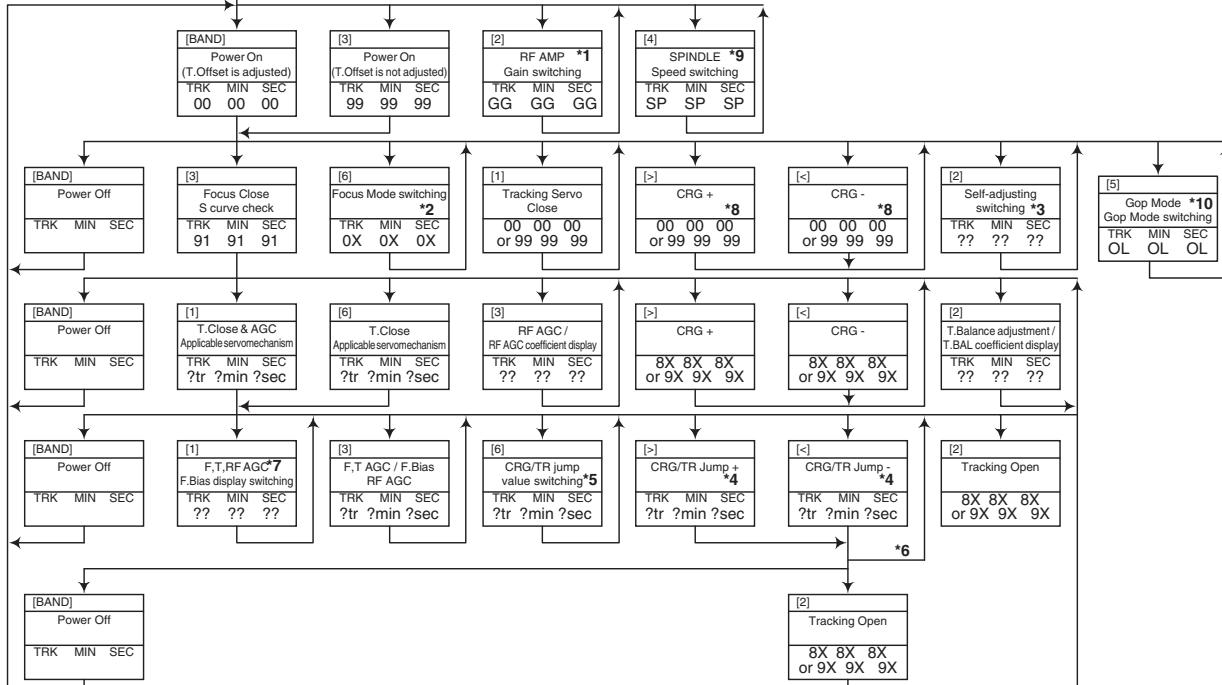
\*The display of the PD number disappears.

## **6.3 CD TEST MODE**

## ● Flow Chart



[1] to [6] keys : Remote Control Unit



\*1)      TYP            ->      + 6 dB            ->      + 12 dB  
TRK    MIN    SEC            TRK 06 MIN 06 SEC 06            TRK 12 MIN 12 SEC 12

\*2) Focus Close -> S.Curve -> F EQ measurement setting  
TRK00MIN00SEC00 TRK01MIN01SEC01 TRK02MIN02SEC02  
(TRK99MIN99SEC99)

\*3) F.Offset Display -> RF.Offset -> T.Offset Display -> Switch to the order of the original display

\*4) 1TB/4TB/10TB/32TB/100TB

\*5) Single -> 4TR -> 10TR -> 32TR -> 100TR -> CRG Move  
 9x(8x):91(81) 92(82) 93(83) 94(84) 95(85) 96(86)

\*6) Only at the time of CRG move, 100TR jump

\*7) TRK/MIN/SEC -> F.AGC -> T.AGC Gain -> F Bias -> RF AGC

\*8) CRG motor voltage = 2 [V]

\*9) TYP (1X) -> 2X -> 1X  
TRK MIN SEC TRK22MIN22SEC22 TRK11MIN11SEC11

[Key]	Operation
	Test Mode
[BAND]	Power On/Off
[>]	CRG + / TR Jump + (Direction of the external surface)
[<]	CRG - / TR Jump - (Direction of the internal surface)
[1]	T. CLS & AGC & Applicable servomechanism / AGC,AGC display setting
[2]	RF Gain switching / Offset adjustment display / T.Balance adjustment / T. Open
[3]	F. Close,S Curve / Rough Servo and RF AGC / F,T,RF AGC
[4]	SPDL 1X/2X switching As for the double speed(2x), audio output <u>cannot</u> be supported.
[5]	Error Rate measurement ON : ERR 30 Counts Start BER display data[%]
[6]	F. Mode switching / Tracking Close / CRG•TR .Jump Switching

- As for the double speed (2x), audio output cannot be supported
- After the [Eject] key is pressed keys other than the [Eject] key should not be pressed, until disc ejection is complete.
- When the key [2] or [3] is pressed during the Focus Search, the power supply should be immediately turned off (otherwise the lens sticks to Wall, causing the actuator to be damaged).
- In the case of TR jump other than to 100TR, the function shall continue to be processed even if the TR jump key is released. As for the CRG Move and 100TR Jump, the mechanism shall be set to the Tracking Close mode when the key is released.
- When the power is turned on/off the jump mode is reset to the Single TR (91) while the gain of the RFAMP is reset to 0 dB. At the same time all the self-adjusting values shall return to the default setting.

## 7. DISASSEMBLY

### ● Removing the Keyboard Unit (Fig.1, 2)

Remove the Knob Unit.(Fig.1)



**1** Remove the four screws.(Fig.2)

Remove the Cover  
and then remove the Keyboard Unit.

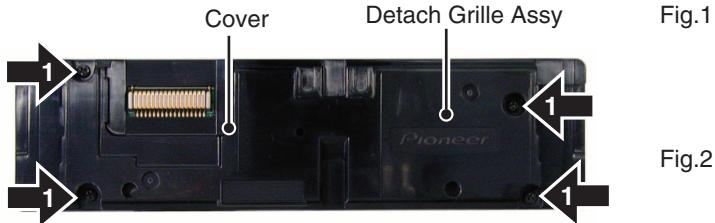


Fig.1

Fig.2

B

### ● Removing the Holder, Panel and Case (Fig.3)

Take off the pick of left and right  
and then a Holder slide to the arrow course.

Remove the Panel.

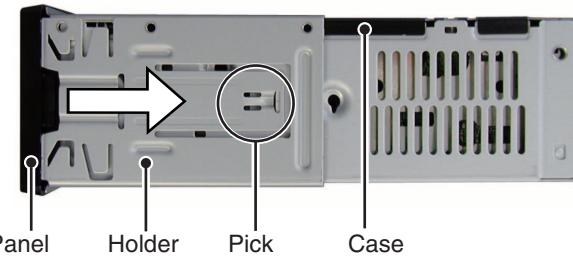


Fig.3

C

### ● Removing the CD Mechanism Module (Fig.4)

**1** Remove the four screws.

Disconnect the cable  
and then remove the CD Mechanism Module.

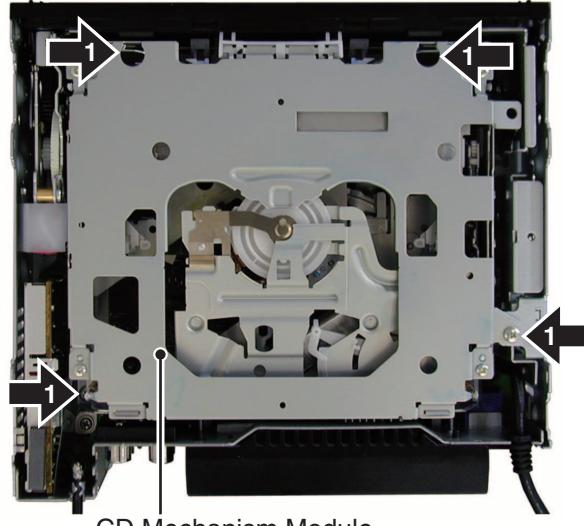


Fig.4

D

### ● Removing the Panel Assy(Fig.5, 6, 7)

Disconnect the two cables.(Fig.5)

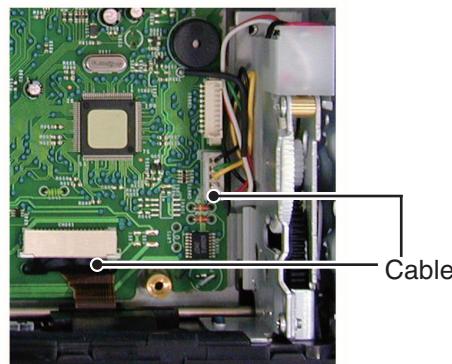


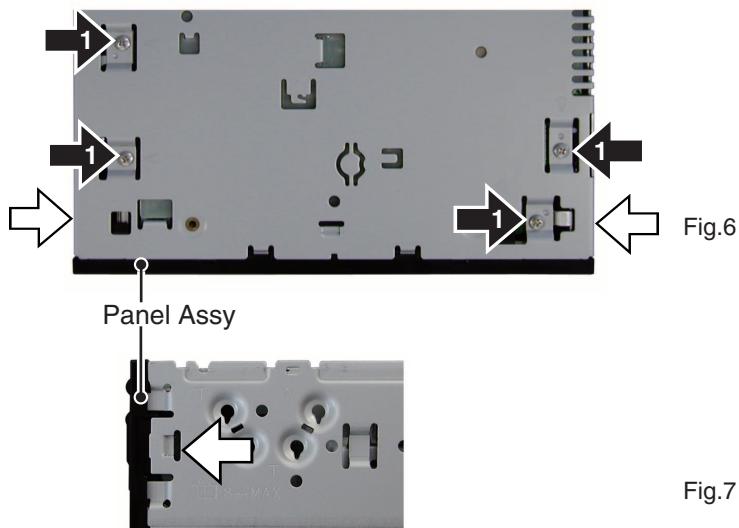
Fig.5

E

Follw next

A The continuance from the page of before.

→ 1 Remove the four screws.(Fig.6)



Push the place of the arrows  
and then remove Panel Assy.(Fig.6, 7)

B

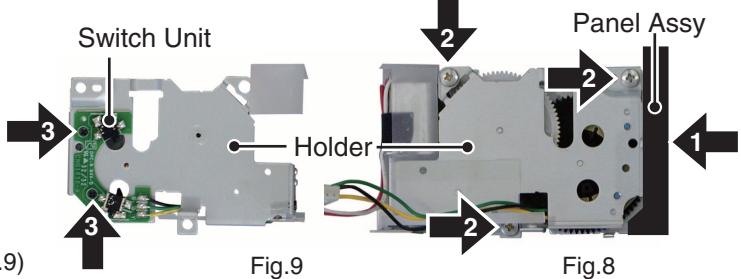
Fig.7

#### ● Removing the Switch Unit(Fig.8, 9)

→ 1 Remove the screw.(Fig.8)

→ 2 Remove the three screws  
and then the Holder.(Fig.8)

→ 3 Remove the two screws  
and then remove the Switch Unit.(Fig.9)



#### ● Removing the Tuner Amp Unit(Fig.10, 11)

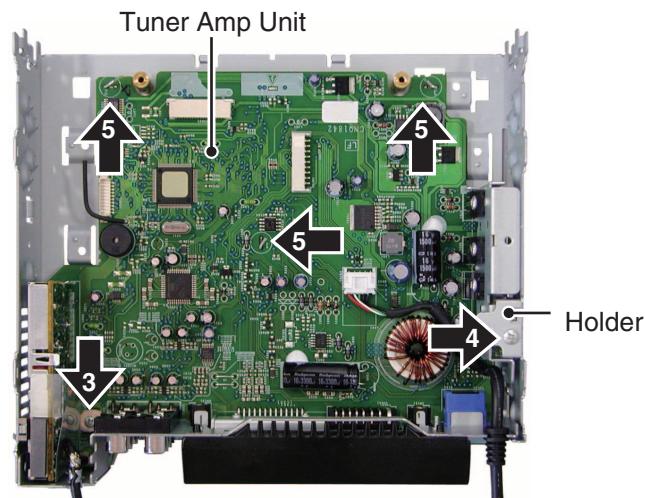
→ 1 Remove the screw  
and then remove the Holder.(Fig.10)

→ 2 Remove the screw.(Fig.10)

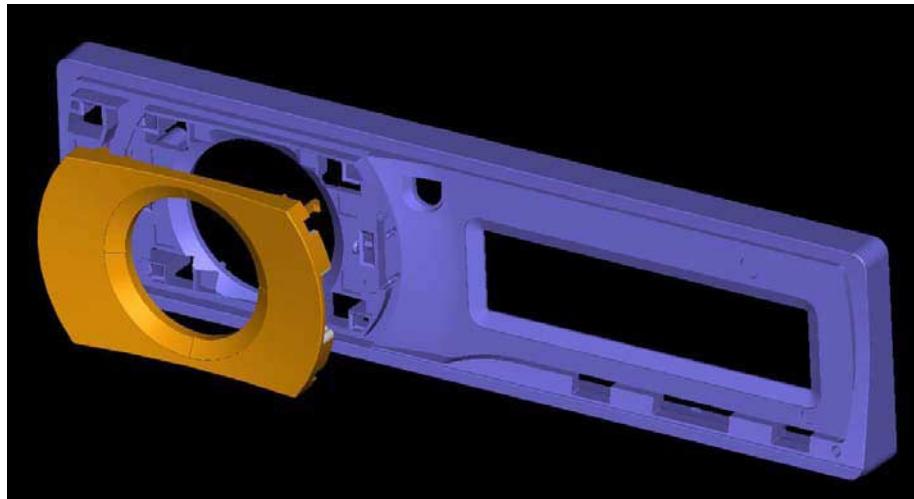
→ 3 Remove the screws.(Fig.11)

→ 4 Remove the screw  
and then remove the Holder.(Fig.11)

→ 5 Straighten the tabs at three locations  
indicated  
and then remove the Tuner Amp Unit.  
(Fig.11)

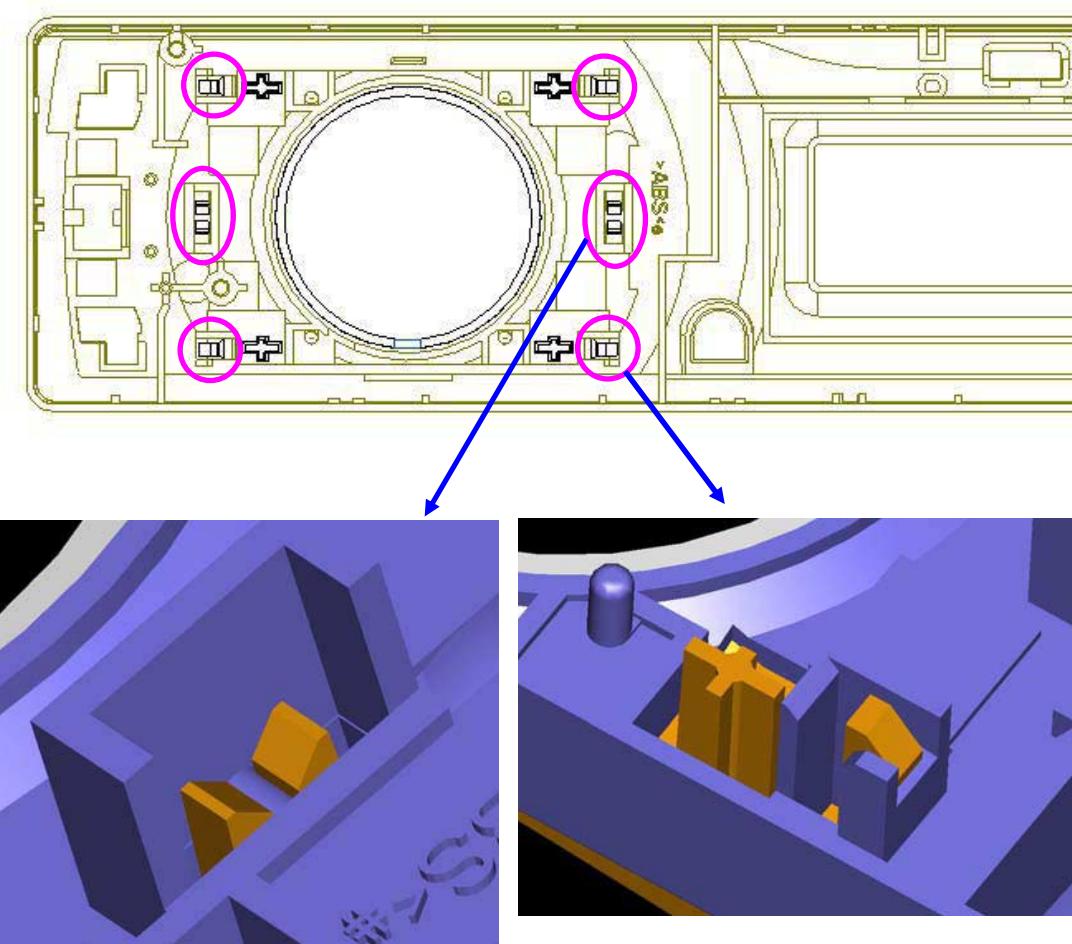


●How from grille to remove plate button.



A

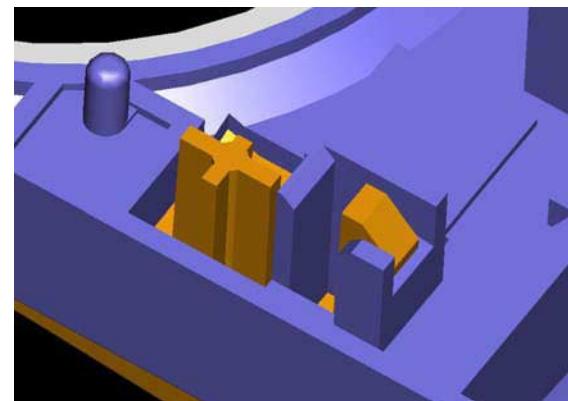
①There are six hooks to remove.



C

D

E



The hook in six places in total is removed by the thin one such as tweezers.

\* The hook breaks when forcibly removing.

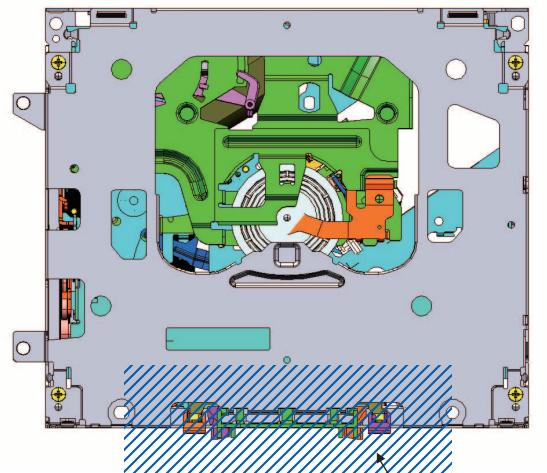
F

## ● How to hold the Mechanism Unit

1. Hold the Upper and Lower Frames.
2. Do not hold the front portion of the Upper Frame, because it is not very solid.

A

B



Do not squeeze this area.

## ● Removing the Upper and Lower Frames

1. With a disc inserted and clamped in the mechanism, remove the two Springs (A), the six Springs (B), and the four Screws.
2. Turn the Upper Frame using the part "a" as a pivot, and remove the Upper Frame.
3. While lifting the Carriage Mechanism, remove it from the three Dampers.

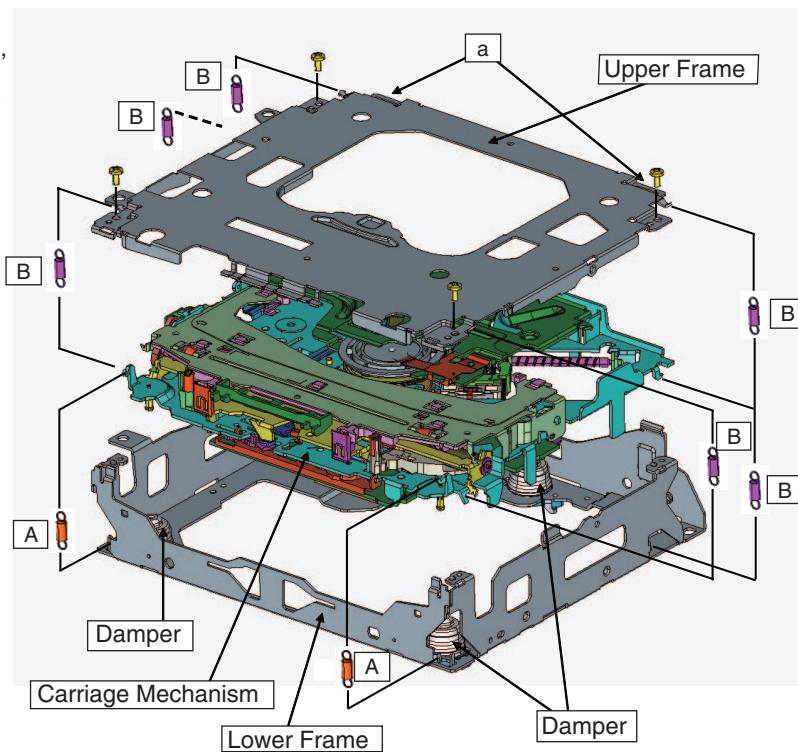
**Caution:** When assembling, be sure to apply some alcohol to the Dampers and assemble the mechanism in a clamped state.

C

D

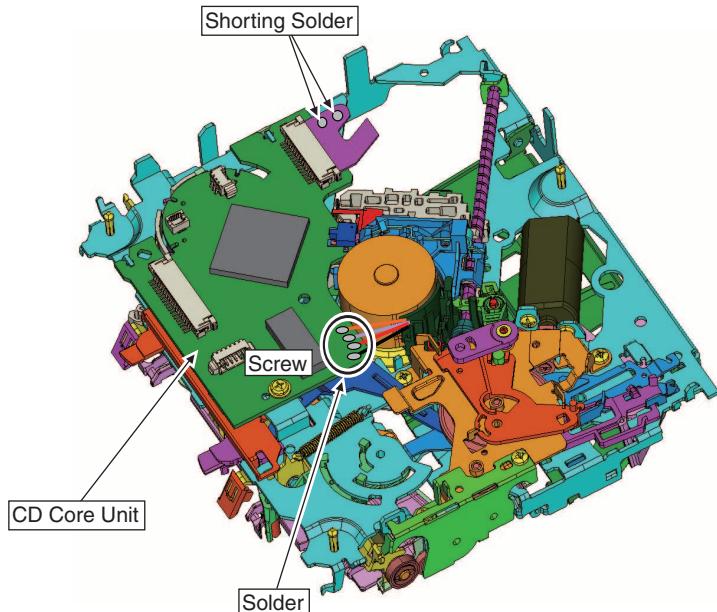
E

F



## ● How to remove the CD Core Unit

1. Apply Shorting Solder to the flexible cable of the Pickup, and disconnect it from the connector.
2. Unsolder the four leads, and loosen the Screw.
3. Remove the CD Core Unit.  
Caution: When assembling the CD Core Unit, assemble it with the SW in a clamped state so as not to damage it.

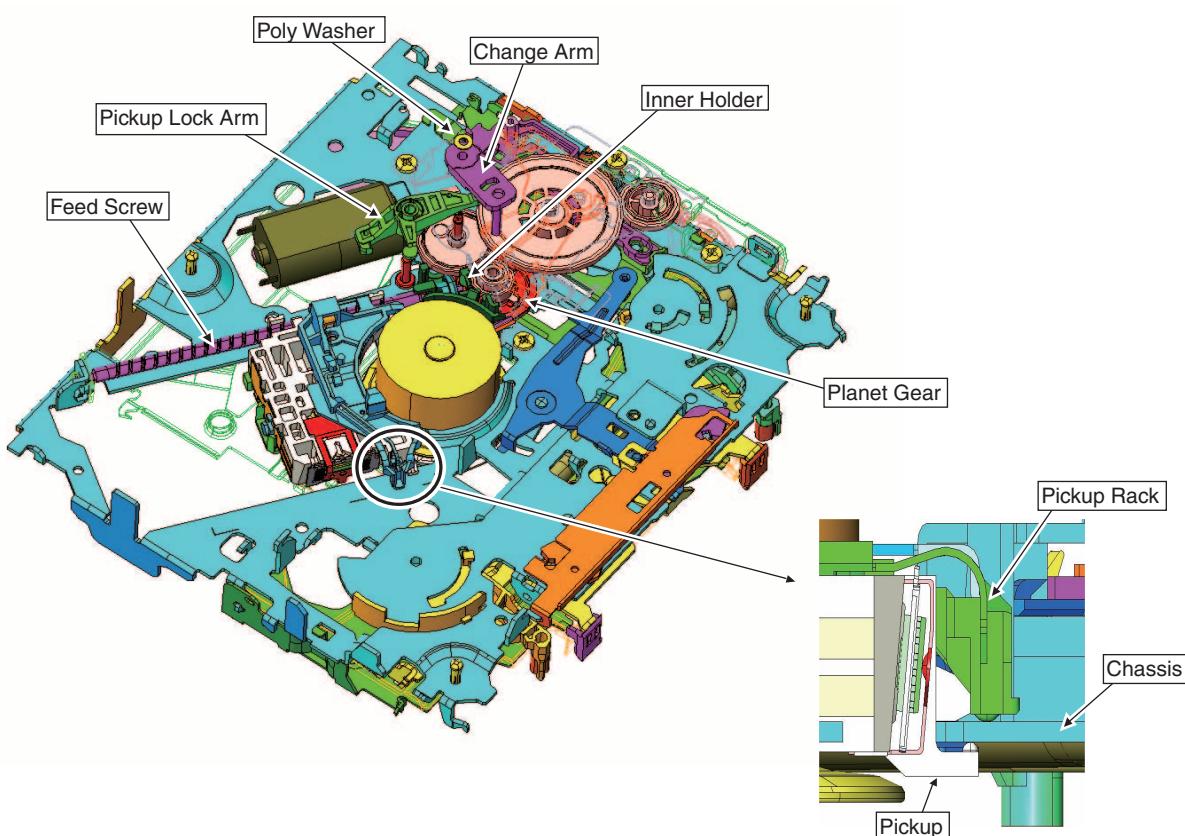


## ● How to remove the Pickup Unit

1. Make the system in the carriage mechanism mode, and have it clamped.
2. Remove the CD Core Unit and remove the leads from the Inner Holder.
3. Remove the Poly Washer, Change Arm, and Pickup Lock Arm.
4. While releasing from the hook of the Inner Holder, lift the end of the Feed Screw.

Caution: When assembling, move the Planet Gear to the load/eject position before setting the Feed Screw in the Inner Holder.

Assemble the sub unit side of the Pickup, taking the plate (Chassis) in-between. When treating the leads of the Load Carriage Motor Assy, do not make them loose over the Feed Screw.



# 8. EACH SETTING AND ADJUSTMENT

## 8.1 CD ADJUSTMENT

A

### 1) Cautions on adjustments

- In this product the single voltage (3.3 V) is used for the regulator. The reference voltage is the REFO1 (1.65 V) instead of the GND.

If you should mistakenly short the REFO1 with the GND during adjustment, accurate voltage will not be obtained, and the servo's misoperation will apply excessive shock to the pickup. To avoid such problems:

- a. Do not mix up the REFO1 with the GND when connecting the (-) probe of measuring instruments.

Especially on an oscilloscope, avoid connecting the (-) probe for CH1 to the GND.

- b. In many cases, measuring instruments have the same potential as that for the (-) probe. Be sure to set the measuring instruments to the floating state.

- c. If you have mistakenly connected the REFO1 to the GND, turn off the regulator or the power immediately.

- Before mounting and removing filters or leads for adjustment, be sure to turn off the regulator.

- For stable circuit operation, keep the mechanism operating for about one minute or more after the regulator is turned on.

- In the test mode, any software protections will not work. Avoid applying any mechanical or electrical shock to the mechanism during adjustment.

- The RFI and RFO signals with a wide frequency range are easy to oscillate. When observing the signals, insert a resistor of 1k ohms in series.

- The load and eject operation is not guaranteed with the mechanism upside down. If the mechanism is blocked due to mistaken eject operation, reset the product or turn off and on the ACC to restore it.

B

C

D

E

F

### 2) Test mode

This mode is used to adjust the CD mechanism module.

- To enter the test mode.

While pressing the 4 and 6 keys at the same time, reset.

- To exit from the test mode.

Turn off the ACC and back up.

#### Notes:

- a. During ejection, do not press any other keys than the EJECT key until the loaded disc is ejected.

- b. If you have pressed the (→) key or (←) key during focus search, turn off the power immediately to protect the actuator from damage caused by the lens stuck.

- c. For the TR jump modes except 100TR, the track jump operation will continue even if the key is released.

- d. For the CRG move and 100TR jump modes, the tracking loop will be closed at the same time when the key is released.

- e. When the power is turned off and on, the jump mode is reset to the singleTR (91), the RF amp gain is set to 0 dB, and the auto-adjustment values are reset to the default settings.

## 8.2 CHECKING THE GRATING AFTER CHANGING THE PICKUP UNIT



- Note :**

The grating angle of the PU unit cannot be adjusted after the PU unit is changed. The PU unit in the CD mechanism module is adjusted on the production line to match the CD mechanism module and is thus the best adjusted PU unit for the CD mechanism module. Changing the PU unit is thus best considered as a last resort. However, if the PU unit must be changed, the grating should be checked using the procedure below.

- Purpose :**

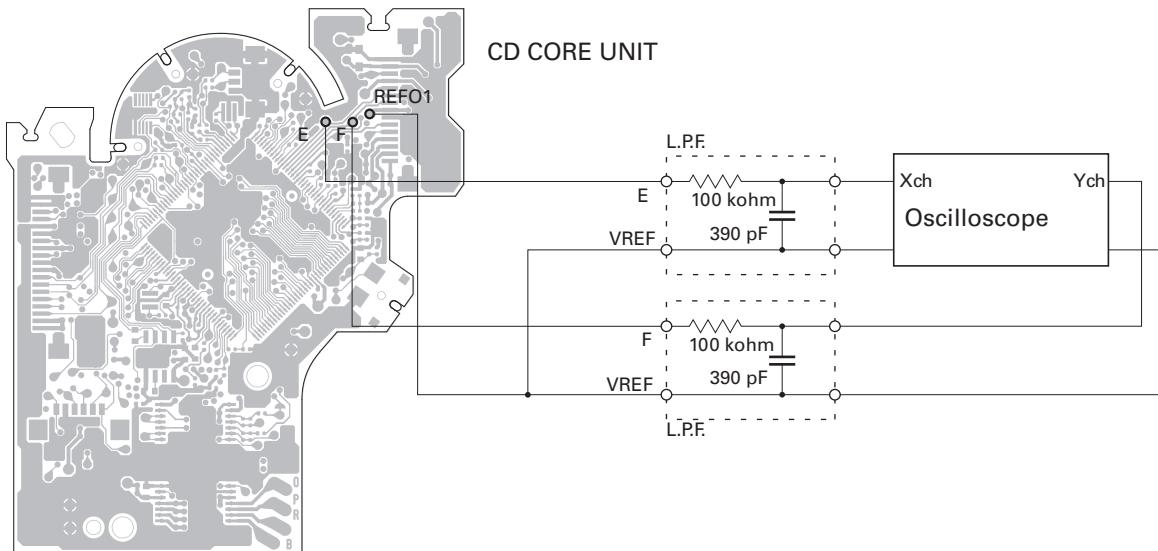
To check that the grating is within an acceptable range when the PU unit is changed.

- Symptoms of Mal-adjustment :**

If the grating is off by a large amount symptoms such as being unable to close tracking, being unable to perform track search operations, or taking a long time for track searching.

- Method :**

• Measuring Equipment	• Oscilloscope, Two L.P.F.
• Measuring Points	• E, F, REFO1
• Disc	• TCD-782
• Mode	• TEST MODE



- Checking Procedure**

1. In test mode, load the disc and switch the 3V regulator on.
2. Using the  $\rightarrow$  and  $\leftarrow$  buttons, move the PU unit to the innermost track.
3. Press key 3 to close focus, the display should read "91". Press key 2 to implement the tracking balance adjustment the display should now read "81". Press key 3. The display will change, returning to "81" on the fourth press.
4. As shown in the diagram above, monitor the LPF outputs using the oscilloscope and check that the phase difference is within 75 degrees. Refer to the photographs supplied to determine the phase angle.
5. If the phase difference is determined to be greater than 75 degrees try changing the PU unit to see if there is any improvement. If, after trying this a number of times, the grating angle does not become less than 75 degrees then the mechanism should be judged to be at fault.

- Note**

Because of eccentricity in the disc and a slight misalignment of the clamping center the grating waveform may be seen to "wobble" (the phase difference changes as the disc rotates). The angle specified above indicates the average angle.

- Hint**

Reloading the disc changes the clamp position and may decrease the "wobble".

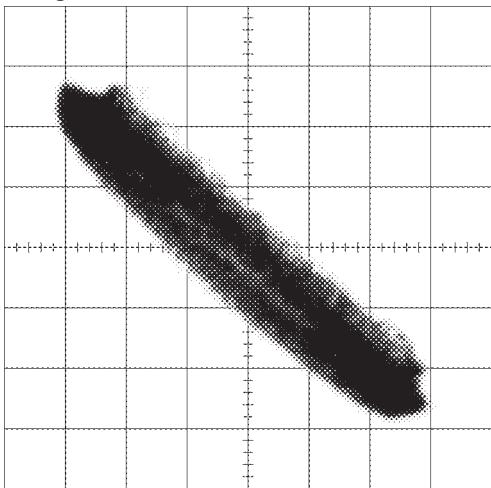
**Grating waveform**

Ech → Xch 20 mV/div, AC

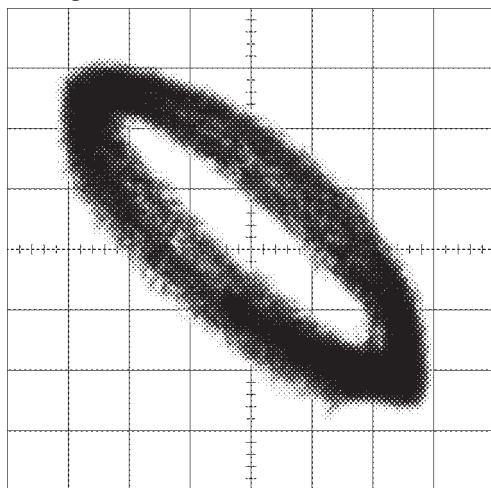
Fch → Ych 20 mV/div, AC

A

0 degrees

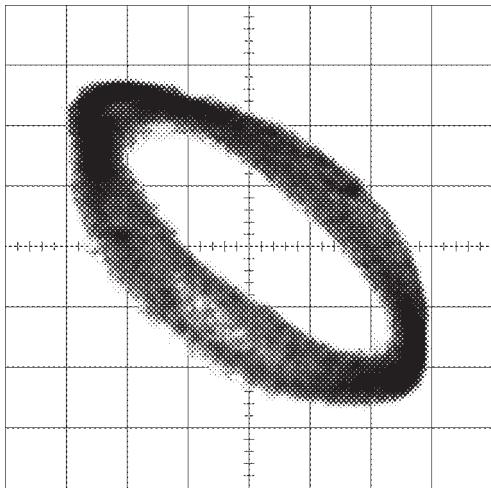


30 degrees

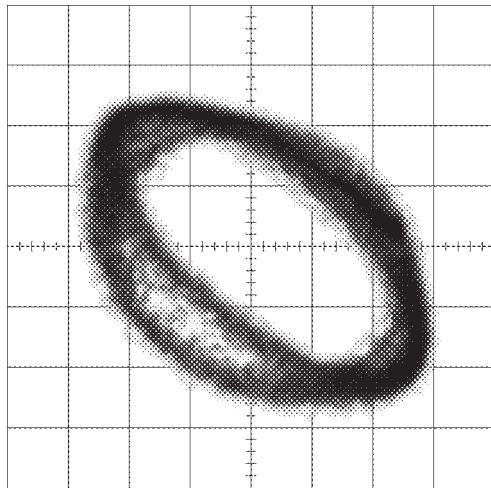


B

45 degrees

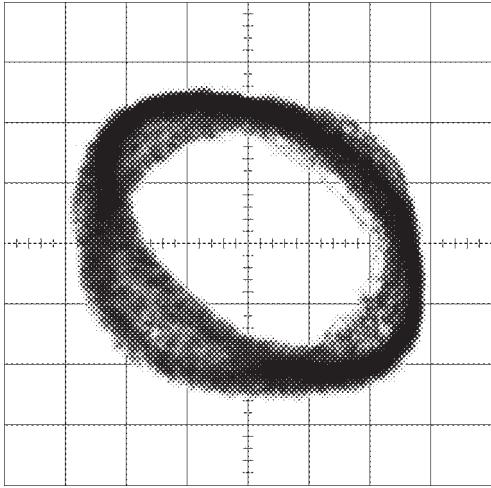


60 degrees

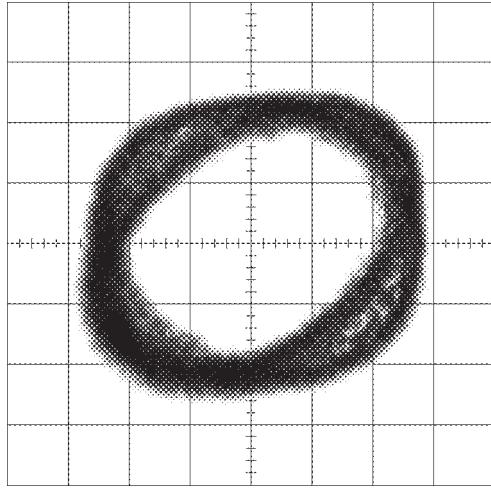


C

75 degrees



90 degrees



F

## 8.3 PCL OUTPUT CONFIRMATION



A

### ● PCL output

In the normal operation mode (with the detachable panel installed, the ACC switched ON, the standby mode cancelled), shift the STEST IC601(Pin 86) terminal to H.

The clock signal is output from the PCL1 terminal IC601(Pin 37).

The frequency of the clock signal is 468.8 kHz that is one 32th of the fundamental frequency.

B

C

D

E

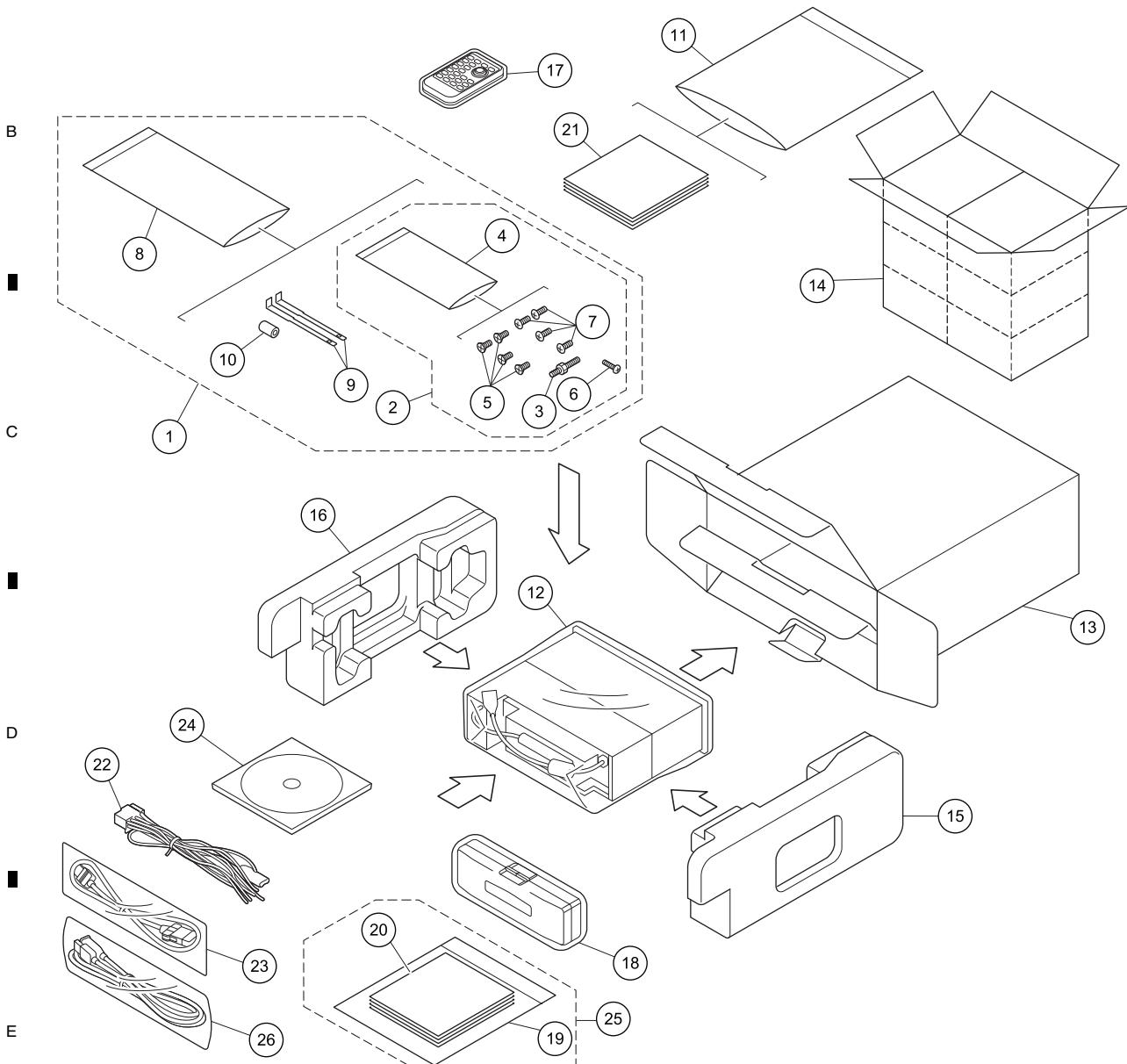
F

## 9. EXPLODED VIEWS AND PARTS LIST

**NOTES :**

- Parts marked by " \* " are generally unavailable because they are not in our Master Spare Parts List.
- The mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
- Screw adjacent to mark on the product are used for disassembly.
- For the applying amount of lubricants or glue, follow the instructions in this manual.  
(In the case of no amount instructions, apply as you think it appropriate.)

### 9.1 PACKING



#### (1) PACKING SECTION PARTS LIST

<u>Mark No.</u>	<u>Description</u>	<u>Part No.</u>	<u>Mark No.</u>	<u>Description</u>	<u>Part No.</u>
*	1 Accessory Assy	See Contrast table (2)	11	Polyethylene Bag	CEG1116
	2 Screw Assy	See Contrast table (2)	12	Polyethylene Bag	See Contrast table (2)
	3 Screw	CBA1650	13	Unit Box	See Contrast table (2)
*	4 Polyethylene Bag	CEG-127	14	Contain Box	See Contrast table (2)
	5 Screw	CRZ50P090FTC	15	Protector	CHP3502
	6 Screw	See Contrast table (2)	16	Protector	CHP3503
	7 Screw	TRZ50P080FTC	17	Remote Control Unit	CXC9113
	8 Polyethylene Bag	CEG1160	18	Case Assy	QXA3049
	9 Handle	CND3707	*	19 Polyethylene Bag	CEG1250
	10 Bush	CNV3930			

<u>Mark No.</u>	<u>Description</u>	<u>Part No.</u>
20	Quick Start Guide	See Language table (3)
21-1	Installation Manual	See Contrast table (2)
21-2	Caution Card	CRP1310
*	21-3 Caution Card	See Contrast table (2)
*	21-4 Caution Card	CRP1366
*	21-5 Caution Card	XRP7002
*	21-6 Caution Card	See Contrast table (2)
*	21-7 Warranty Card	See Contrast table (2)
*	21-8 Service Network	See Contrast table (2)
22	Cord Assy	XDP7004
23	Cord Assy	See Contrast table (2)
24	CD-ROM (Operation Manual)	See Contrast table (2)
25	Owner's Manual Assy	See Contrast table (2)
26	Cord Assy	CDP1040

## (2) CONTRAST TABLE

DEH-P600UB/XN/UC, DEH-P6000UB/XN/UC, DEH-P6050UB/XN/ES and DEH-P6050UB/XN/ES1 are constructed the same except for the following:

<b>Mark</b>	<b>No.</b>	<b>Description</b>	<b>DEH-P600UB/XN/UC</b>	<b>DEH-P6000UB/XN/UC</b>	<b>DEH-P6050UB/XN/ES</b>	<b>DEH-P6050UB/XN/ES1</b>
*	1	Accessory Assy	CEA7316	CEA7316	CEA7317	CEA7317
	2	Screw Assy	CEA5322	CEA5322	CEA3849	CEA3849
	6	Screw	JPZ20P060FTB	JPZ20P060FTB	Not used	Not used
	12	Polyethylene Bag	CEG1368	CEG1368	CEG1227	CEG1227
	13	Unit Box	CHG6390	CHG6389	CHG6392	CHG6408
	14	Contain Box	CHL6390	CHL6389	CHL6392	CHL6408
	21-1	Installation Manual	CRD4255	CRD4257	CRD4260	CRD4260
*	21-3	Caution Card	CRP1365	CRP1365	CRP1364	CRP1364
*	21-6	Caution Card	Not used	CRP1294	Not used	Not used
*	21-7	Warranty Card	CRY1070	CRY1246	Not used	CRY1250
*	21-8	Service Network	Not used	Not used	Not used	CRY1251
	23	Cord Assy	CDP1041	Not used	Not used	Not used
	24	CD-ROM (Operation Manual)	CPJ1215	CPJ1216	CPJ1217	CPJ1217
	25	Owner's Manual Assy	CXC9691	CXC9692	CXC9693	CXC9693

## (3) Language of Quick Start Guide

<b>Mark</b>	<b>DEH-P600UB/XN/UC</b>	<b>DEH-P6000UB/XN/UC</b>	<b>Language</b>
*	CRB2608	CRB2610	English
*	CRB2609	CRB2611	French
<b>Mark</b>	<b>DEH-P6050UB/XN/ES, /ES1</b>		
*	CRB2612		
*	CRB2613		
*	CRB2614		
*	CRB2615		
*	CRB2616		

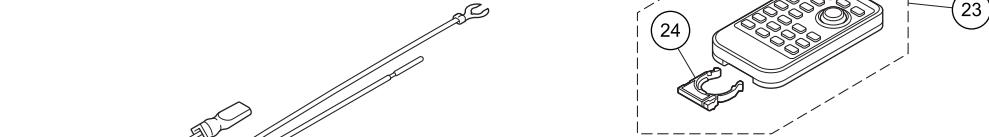
## (4) CONTENTS OF CD-ROM (Operation Manual)

<b>Mark</b>	<b>DEH-P600UB/XN/UC (CPJ1215)</b>	<b>DEH-P6000UB/XN/UC (CPJ1216)</b>	<b>Language</b>
*	CRB2569	CRB2571	English
*	CRB2570	CRB2572	French
<b>Mark</b>	<b>DEH-P6050UB/XN/ES, /ES1 (CPJ1217)</b>		
*	CRB2573		
*	CRB2574		
*	CRB2575		
*	CRB2576		
*	CRB2577		

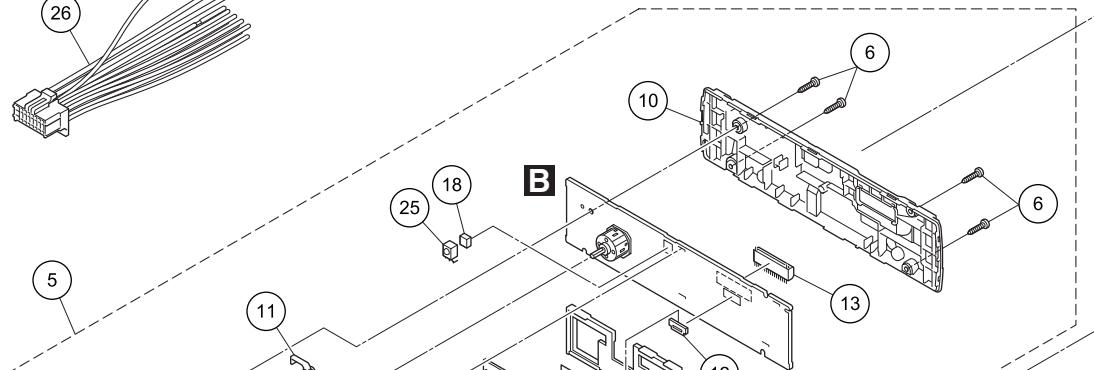
All operation manuals are supplied in PDF files by the CD-ROM. No printed papers are available.

■ 1 ■ 2 ■ 3 ■ 4  
**9.2 EXTERIOR(1)**

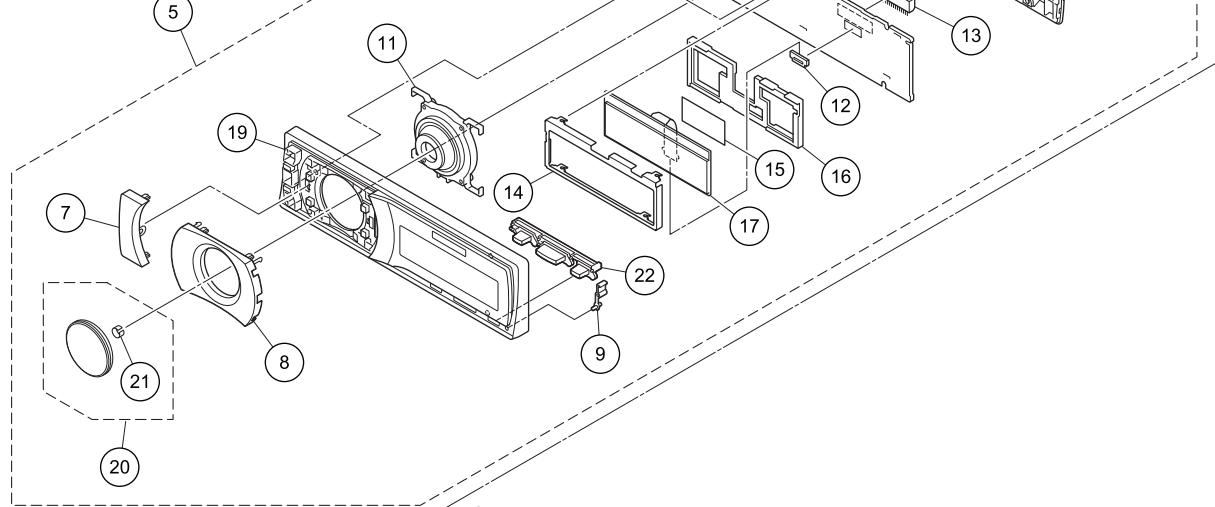
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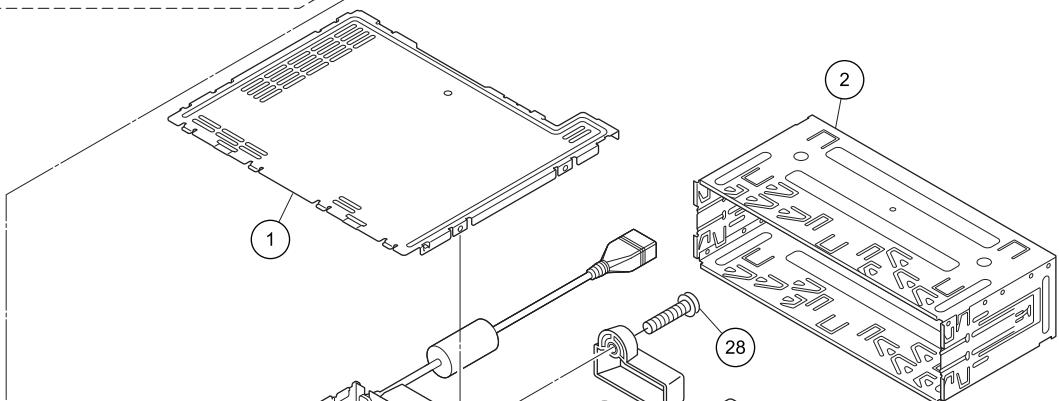
B



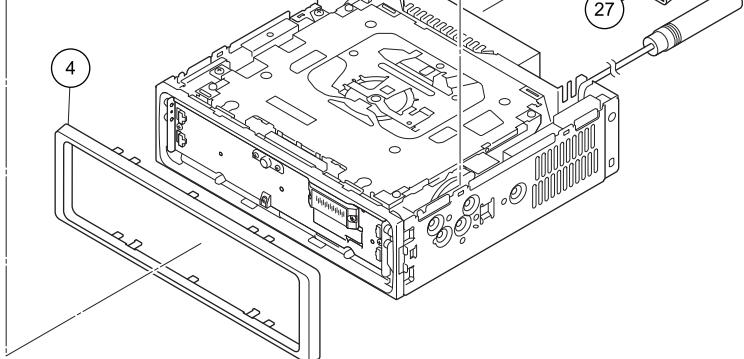
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D



E



F

**(1) EXTERIOR(1) SECTION PARTS LIST**

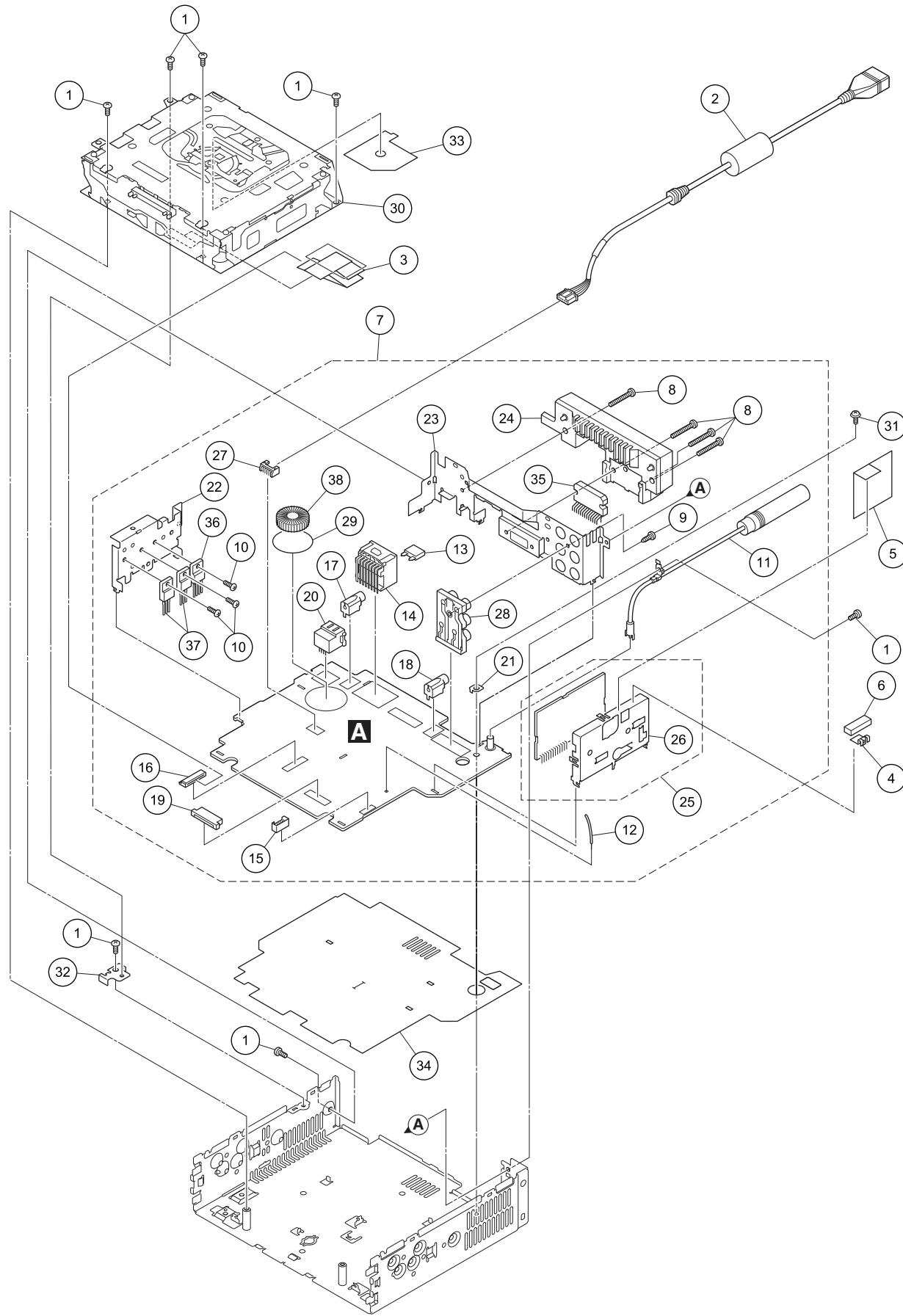
<u>Mark No.</u>	<u>Description</u>	<u>Part No.</u>	<u>Mark No.</u>	<u>Description</u>	<u>Part No.</u>
1	Case	CNB3466	15	Double Side Tape	CNM8673
2	Holder	CND3598	16	Holder	CNV9886
3	.....		17	OEL Unit	MXS8260
4	Panel	See Contrast tabel (2)	18	Spacer	CNN2403
5	Detach Grille Assy	See Contrast tabel (2)	19	Grille Unit	See Contrast tabel (2)
6	Screw	BPZ20P080FTB	20	Knob Unit	See Contrast tabel (2)
7	Button(SRC, BAND)	CAI1661	21	Spring	XBL7005
8	Button Unit (DISP, S.Rtrv, RDM, SW)	See Contrast tabel	22	Button Unit(CLOCK, LIST, OPEN)	CXC8936
(2)			23	Remote Control Unit	CXC9113
9	Button(Reset)	CAI1676	24	Cover	CZN5357
10	Cover	CNS9294	25	IC(IC1931)	GP1UX31RK
11	Lighting Conductor	CNV9883	26	Cord Assy	XDP7004
12	Connector(CN1961)	CKS5545	27	Holder	See Contrast tabel (2)
13	Connector(CN1801)	CKS5662	28	Screw	See Contrast tabel (2)
14	Holder	CND4267			

**(2) CONTRAST TABLE**

DEH-P600UB/XN/UC, DEH-P6000UB/XN/UC, DEH-P6050UB/XN/ES and DEH-P6050UB/XN/ES1 are constructed the same except for the following:

<b>Mark</b>	<b>No.</b>	<b>Description</b>	<b>DEH-P600UB/XN/UC</b>	<b>DEH-P6000UB/XN/UC</b>	<b>DEH-P6050UB/XN/ES DEH-P6050UB/XN/ES1</b>
	4	Panel	CNS9342	CNS9319	CNS9319
	5	Detach Grille Assy	CXC8930	CXC8929	CXC8931
	8	Button Unit (DISP, S.Rtrv, RDM, SW)	CXC8880	CAI1672 (Button)	CXC9427
	19	Grille Unit	CXC8879	CXC8873	CXC8874
	20	Knob Unit	CXC8883	CXC8911	CXC8883
	27	Holder	Not used	CNV7619	Not used
	28	Screw	Not used	BMZ40P140FTC	Not used

■ 1 2 3 4  
9.3 EXTERIOR(2)



**(1) EXTERIOR(2) SECTION PARTS LIST**

<u>Mark No.</u>	<u>Description</u>	<u>Part No.</u>	<u>Mark No.</u>	<u>Description</u>	<u>Part No.</u>
1	Screw	BSZ26P060FTC	21	Holder(CN401)	CNC5399
2	Cord Assy	CDE8351	22	Holder	CND3133
3	Cable	CDE8549	23	Holder	See Contrast table (2)
4	Earth Plate	CND2171	24	Heat Sink	CNR1940
5	Insulator	CNM8790	25	FM/AM Tuner Unit(Y401)	CWE2098
6	Cushion	CNM9126			
7	Tuner Amp Unit	See Contrast table (2)	26	Holder	CND4324
8	Screw	BMZ26P180FTC	27	Plug(CN781)	KM200NA5L
9	Screw	BPZ26P070FTC	28	Pin Jack(CN302)	XKB7001
10	Screw	BSZ26P060FTC	29	Insulator	XNM7031
			30	CD Mechanism Module(S10.5)	CXK5770
11	Antenna Cable(CN402)	CDH1336			
12	Clamper	CEF1048	31	Screw	ISS26P055FTC
△ 13	Fuse(10 A)	YEK5001	32	Holder	XNC7014
14	Plug(CN981)	CKM1376	33	Insulator	XNM7106
15	Plug(CN871)	CKS-786	34	Insulator	XNM7114
			35	IC(IC351)	PAL007C
16	Connector(CN701)	CKS3833			
17	Connector(CN151)	See Contrast table (2)	36	IC(IC911)	NJM2388F84
18	Connector(CN181)	CKS4124	37	Transistor(Q751,Q901)	2SD2396
19	Connector(CN801)	CKS4811	38	Choke Coil(L981)	CTH1280
20	Connector(CN101)	CKS5271			

**(2) CONTRAST TABLE**

DEH-P600UB/XN/UC, DEH-P6000UB/XN/UC, DEH-P6050UB/XN/ES and DEH-P6050UB/XN/ES1 are constructed the same except for the following:

<b>Mark</b>	<b>No.</b>	<b>Description</b>	<b>DEH-P600UB/XN/UC</b>	<b>DEH-P6000UB/XN/UC</b>	<b>DEH-P6050UB/XN/ES DEH-P6050UB/XN/ES1</b>
	7 17 23	Tuner Amp Unit Connector(CN151) Holder	CWN3149 CKS4124 CND4255	CWN3148 CKS4124 CND4255	CWE3150 Not used CND4256

C

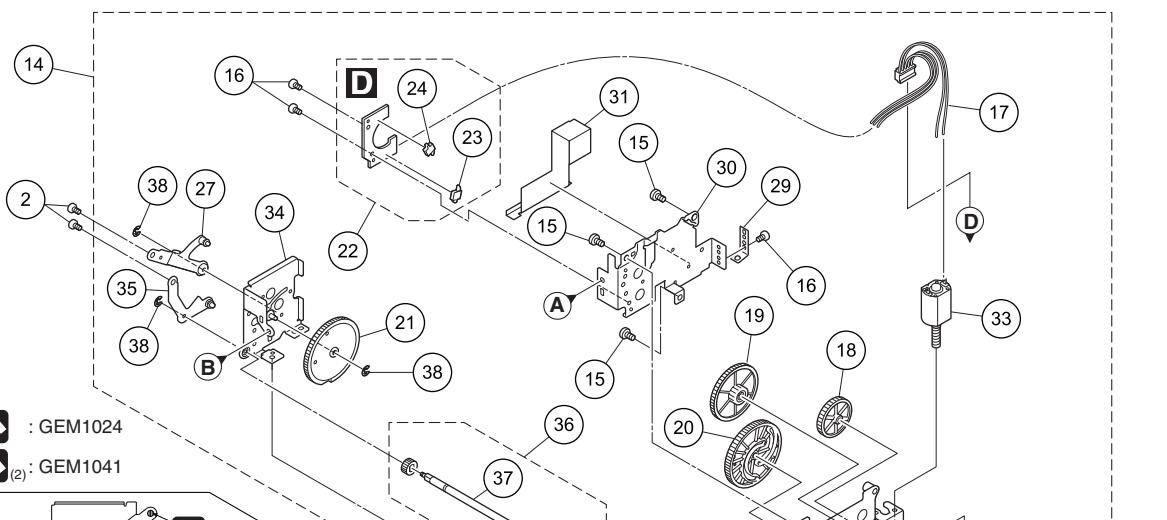
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E

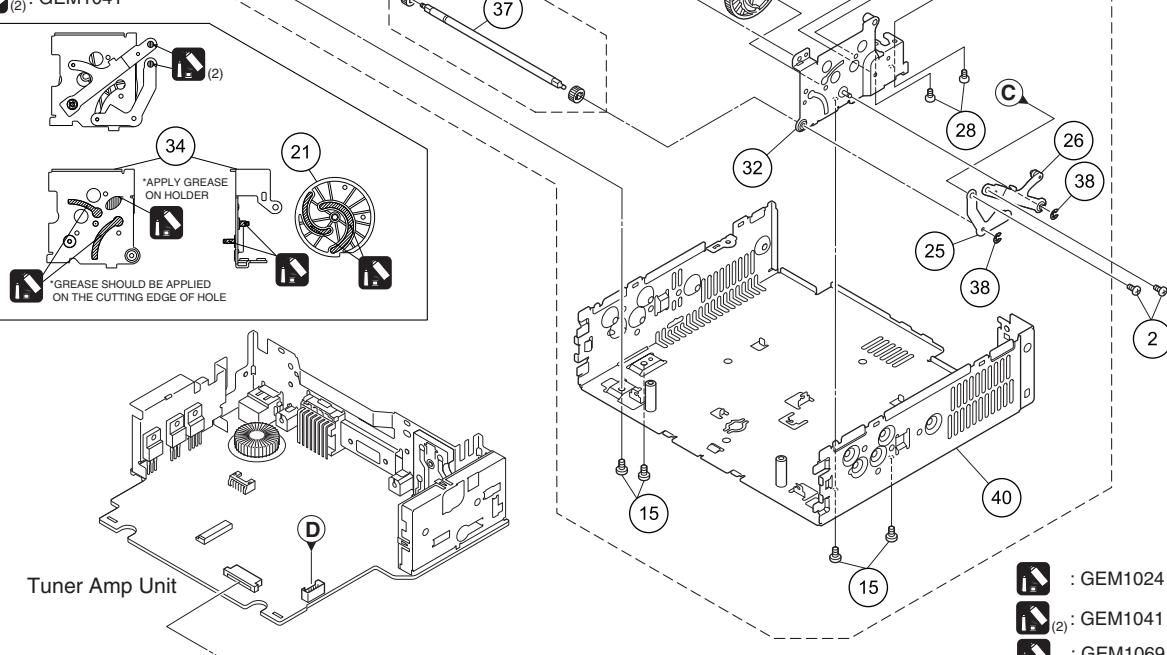
F

## 9.4 DRIVE UNIT

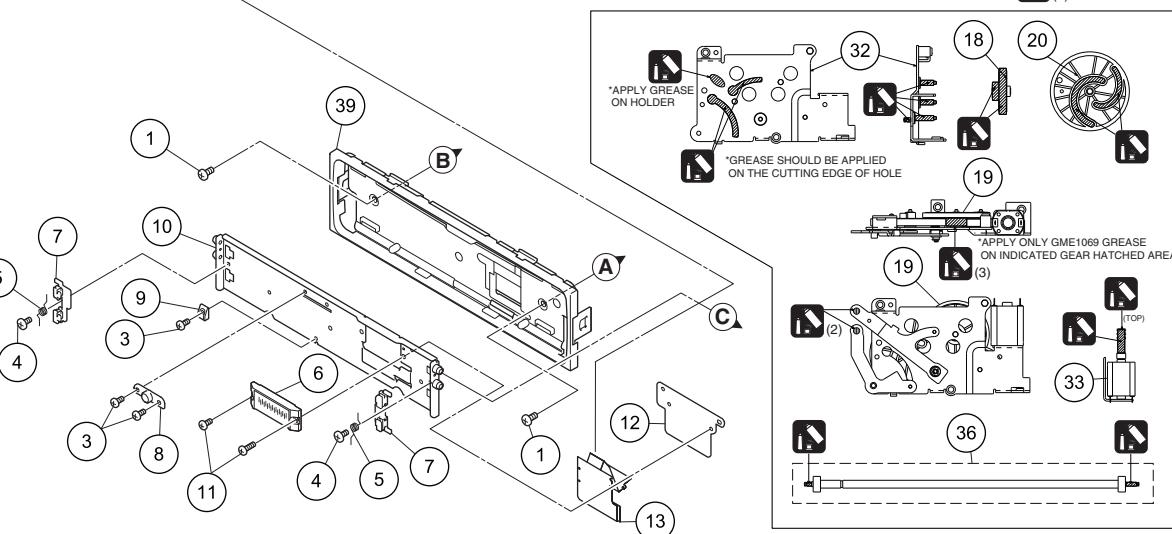
A



B



C



## DRIVE UNIT SECTION PARTS LIST

<u>Mark No.</u>	<u>Description</u>	<u>Part No.</u>
1	Screw(M2.6 x 4)	CBA1828
2	Screw(M2 x 2.5)	CBA1924
3	Screw(M2 x 2)	CBA1871
4	Screw(M2 x 1.9)	CBA1935
5	Spring	CBH2530
6	Connector	CKS5273
7	Arm	CNV6962
8	Guide	CNV6967
9	Guide	CNV8048
10	Case Unit	CXC6483
11	Screw(M2 x 3.5)	XBA7002
12	Holder	XNC7019
13	Flexible PCB	XNP7026
14	Drive Unit	CXC8854
15	Screw	BMZ26P040FTC
16	Screw(M2 x 2)	CBA1871
17	Cord	CDE7392
18	Gear	CNV7752
19	Gear	CNV7753
20	Gear	CNV7754
21	Gear	CNV7755
22	Switch Unit	CWS1389
23	Switch	CSN1051
24	Spring Switch	CSN1052
25	Arm Unit	CXC2199
26	Arm Unit	CXC6623
27	Arm Unit	CXC6624
28	Screw	JFZ20P020FTC
29	Spring	XBL7003
30	Holder	XNC7017
31	Insulator	XNM7119
32	Holder Unit	XXA7399
33	Motor Unit	XXA7400
34	Holder Unit	XXA7401
35	Arm Unit	XXA7403
36	Gear Unit	XXA7424
37	Shaft	XLA7001
38	Washer	YE15FTC
39	Panel Unit	CXC8925
* 40	Chassis Unit	CXC8855

A

B

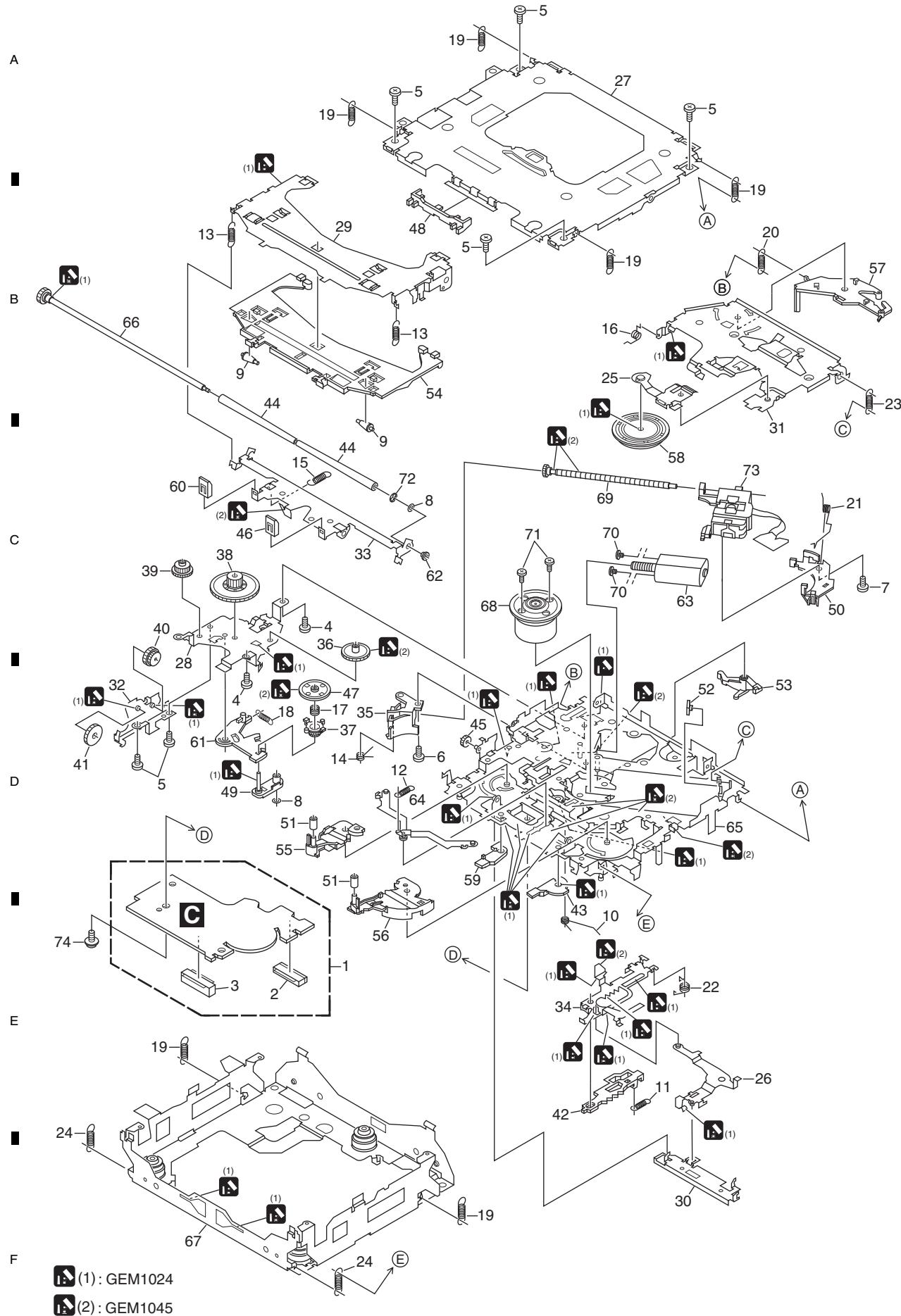
C

D

E

F

## 9.5 CD MECHANISM MODULE



(1): GEM1024

(2) : GEM1045

## CD MECHANISM MODULE SECTION PARTS LIST

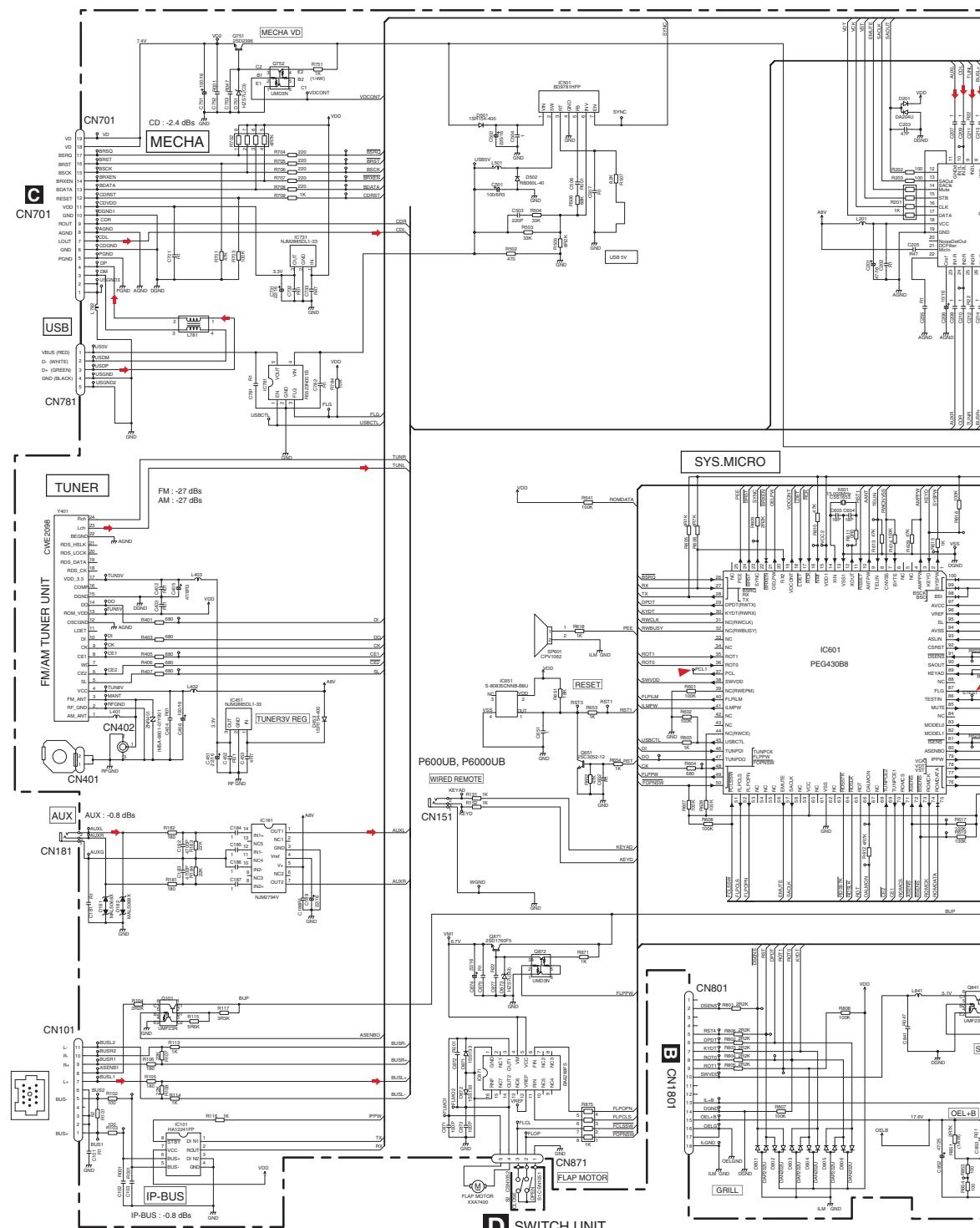
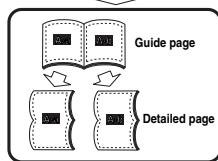
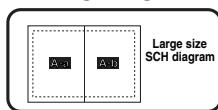
<u>Mark No.</u>	<u>Description</u>	<u>Part No.</u>	<u>Mark No.</u>	<u>Description</u>	<u>Part No.</u>
1	CD Core Unit(S10.5COMP2-iPod)	CWX3526	50	Rack	CNV8342
2	Connector(CN101)	CKS4182	51	Roller	CNV8343
3	Connector(CN701)	CKS4186	52	Holder	CNV8344
4	Screw	BMZ20P025FTC	53	Arm	CNV8345
5	Screw	BSZ20P040FTC	54	Guide	CNV9498
6	Screw(M2 x 3)	CBA1511	55	Arm	CNV8348
7	Screw(M2 x 4)	CBA1835	56	Arm	CNV8349
8	Washer	CBF1038	57	Arm	CNV8350
9	Roller	CNV9499	58	Clamper	CNV8365
10	Spring	CBH2609	59	Arm	CNV8386
11	Spring	CBH2612	60	Guide	CNV8396
12	Spring	CBH2614	61	Arm	CNV8413
13	Spring	CBH2616	62	Collar	CNV8938
14	Spring	CBH2617	63	Motor Unit(M2)	CXC4026
15	Spring	CBH2620	64	Arm Unit	CXC4027
16	Spring	CBH2855	65	Chassis Unit	CXC4028
17	Spring	CBH2937	66	Gear Unit	CXC4029
18	Spring	CBH2735	67	Frame Unit	CXC4031
19	Spring	CBH2854	68	Motor Unit(M1)	CXC7134
20	Spring	CBH2642	69	Screw Unit	CXC6359
21	Spring	CBH2856	70	Screw	JFZ20P020FTC
22	Spring	CBH2857	71	Screw	JGZ17P022FTC
23	Spring	CBH2860	72	Washer	YE20FTC
24	Spring	CBH2861	73	Pickup Unit(P10.5)(Service)	CXX1942
25	Spring	CBL1686	74	Screw	IMS26P030FTC
26	Arm	CND1909			
27	Frame	CND2582			
28	Bracket	CND2583			
29	Arm	CND3831			
30	Lever	CND2585			
31	Arm	CND2586			
32	Bracket	CND2587			
33	Arm	CND2588			
34	Lever	CND2589			
35	Holder	CNV7201			
36	Gear	CNV7207			
37	Gear	CNV7208			
38	Gear	CNV7209			
39	Gear	CNV7210			
40	Gear	CNV7211			
41	Gear	CNV7212			
42	Rack	CNV7214			
43	Arm	CNV7216			
44	Roller	CNV7218			
45	Gear	CNV7219			
46	Guide	CNV7361			
47	Gear	CNV7595			
48	Guide	CNV7799			
49	Arm	CNV7805			

# 10. SCHEMATIC DIAGRAM

## 10.1 OVERALL CONNECTION DIAGRAM(GUIDE PAGE)

A Note: When ordering service parts, be sure to refer to " EXPLODED VIEWS AND PARTS LIST" or "ELECTRICAL PARTS LIST".

**A-a**

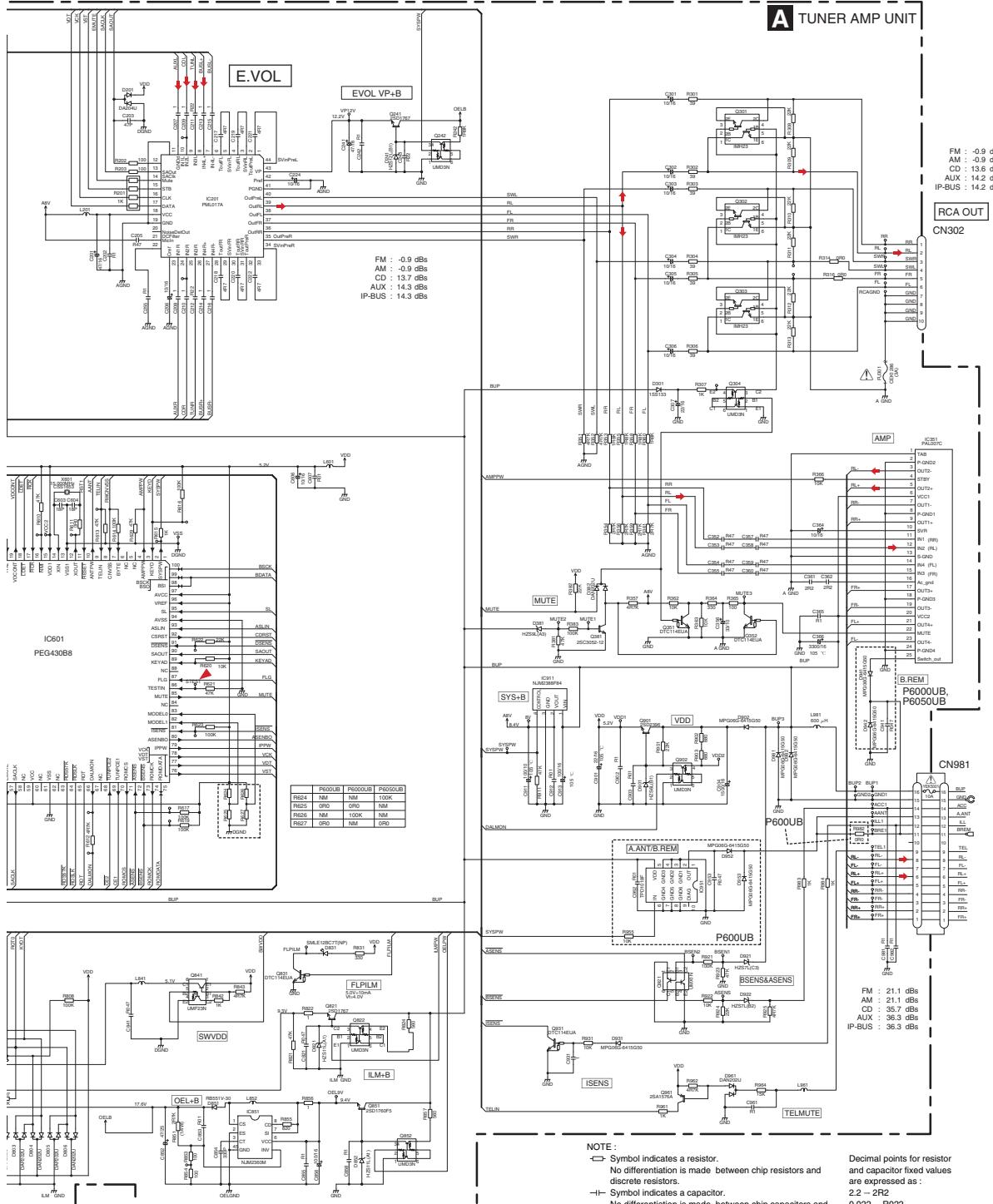


**A D**

# A-b

The mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.

## A TUNER AMP UNIT

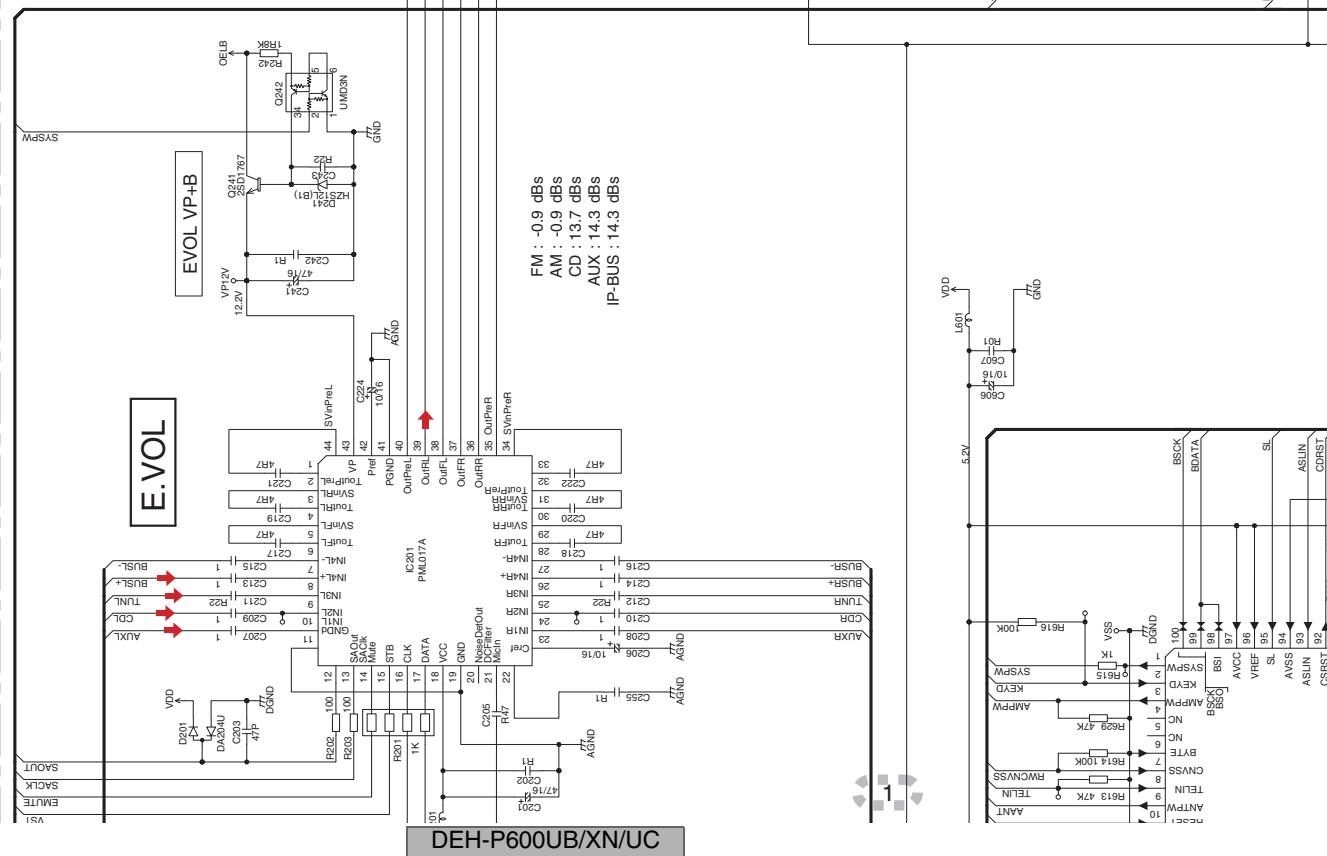


A

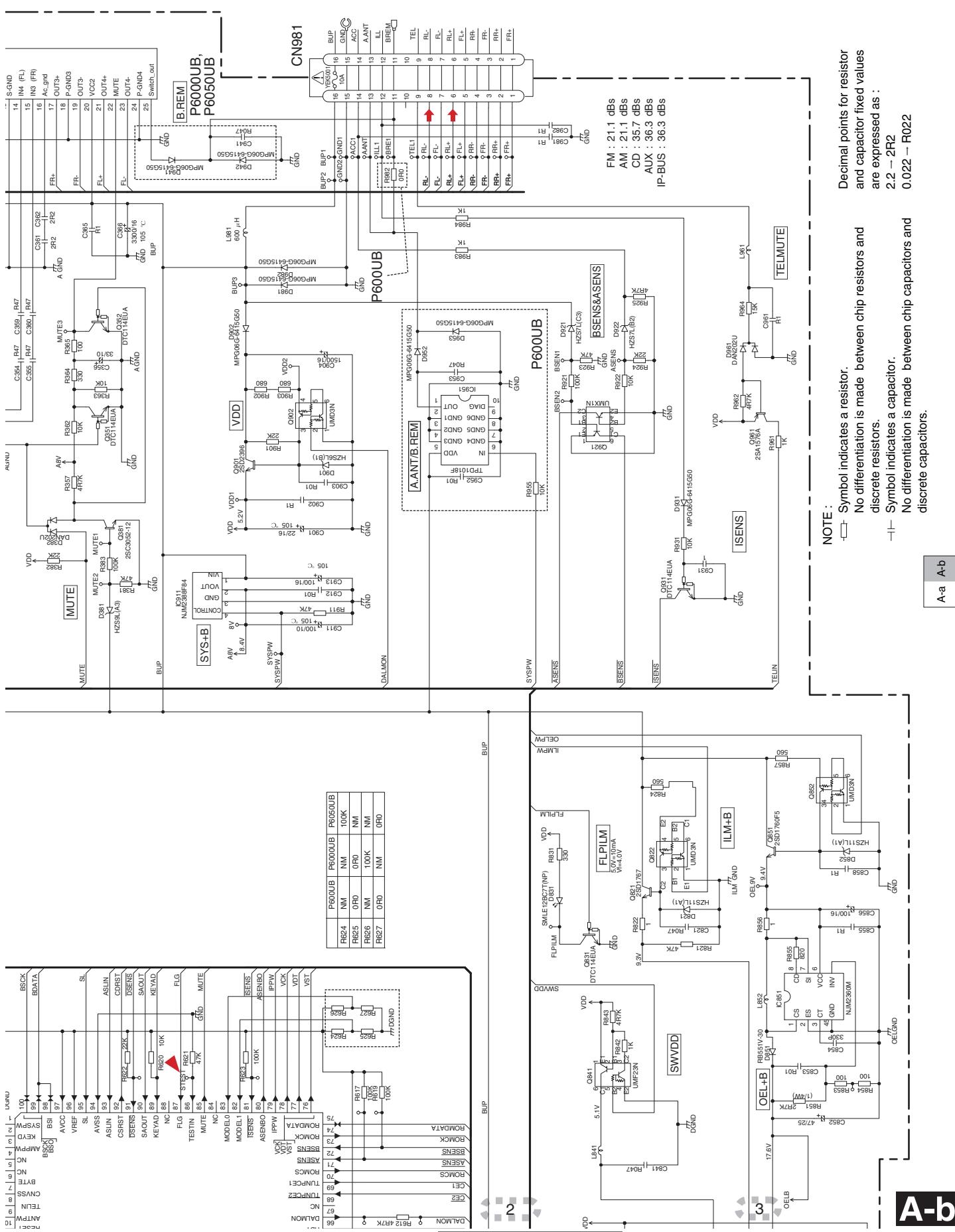
The  $\triangle$  mark found on some component parts indicates the importance of the safety factor of the part.

Therefore, when replacing, be sure to use parts of identical designation.

A TUNER AMP UNIT



**A-b**



A

C

D

E

F

**A-b**

A

**A-b**

B

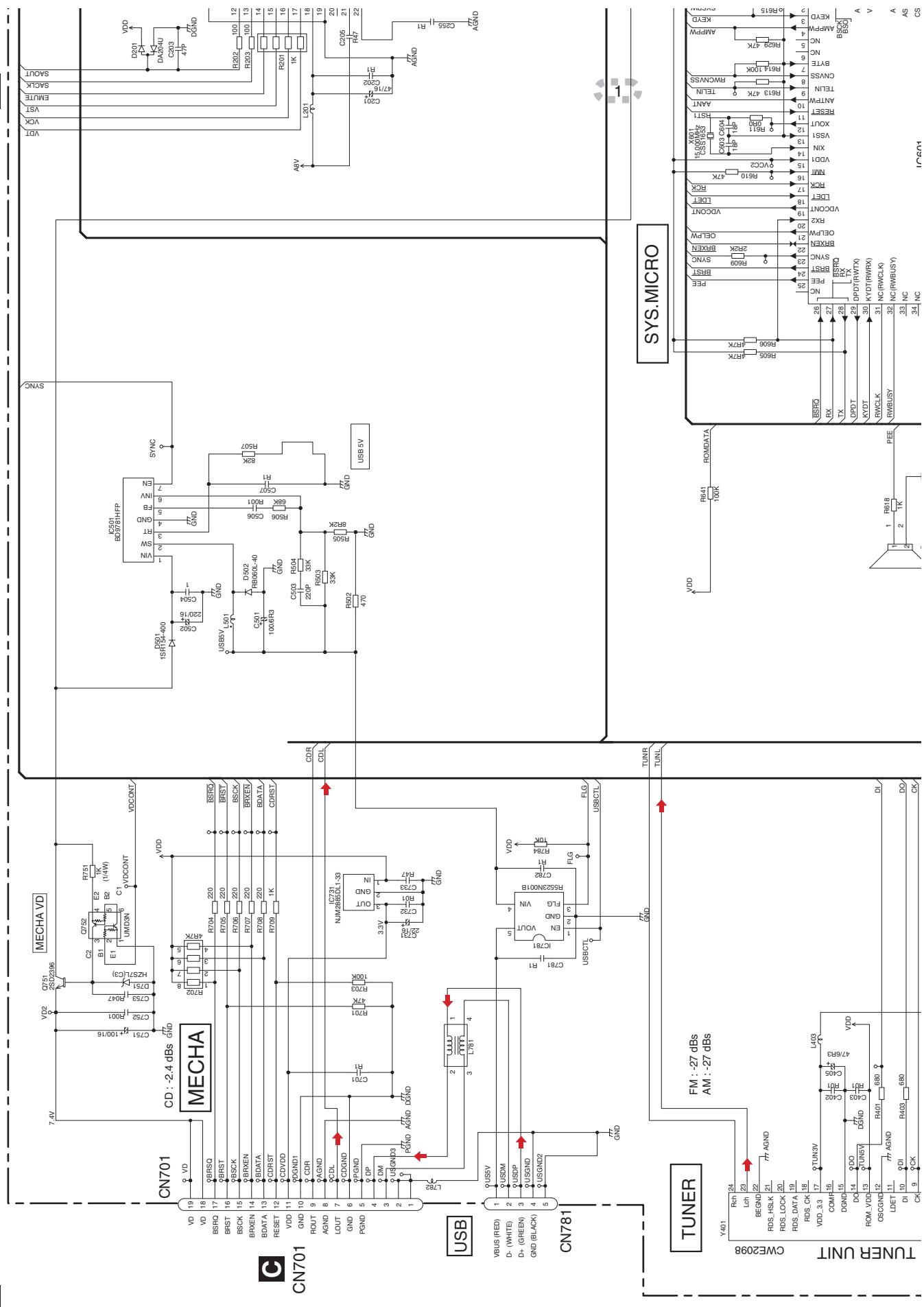
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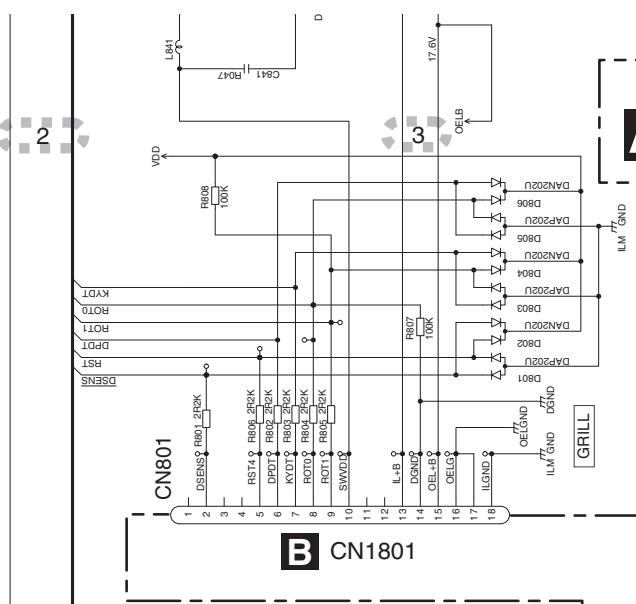
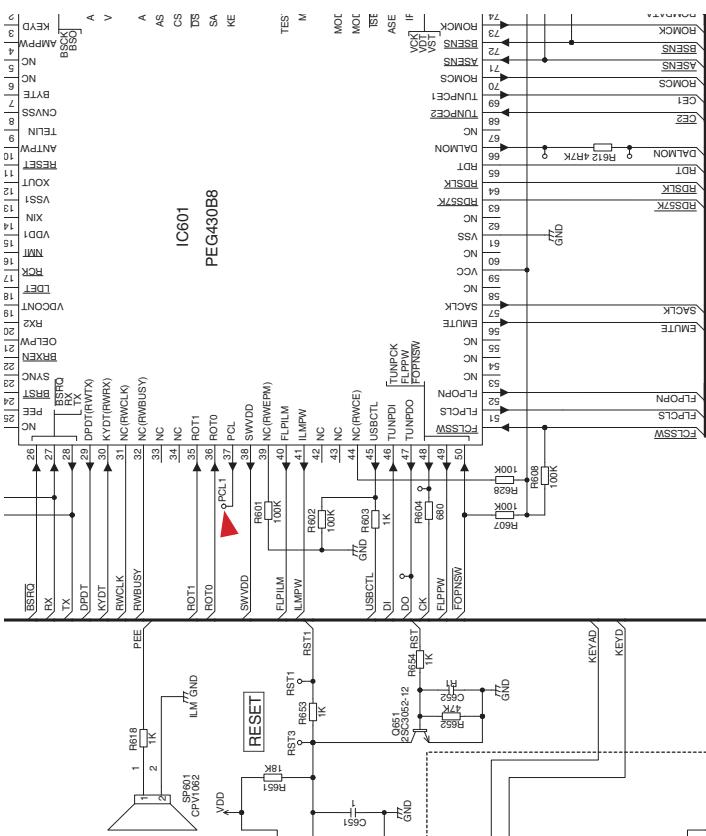
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1

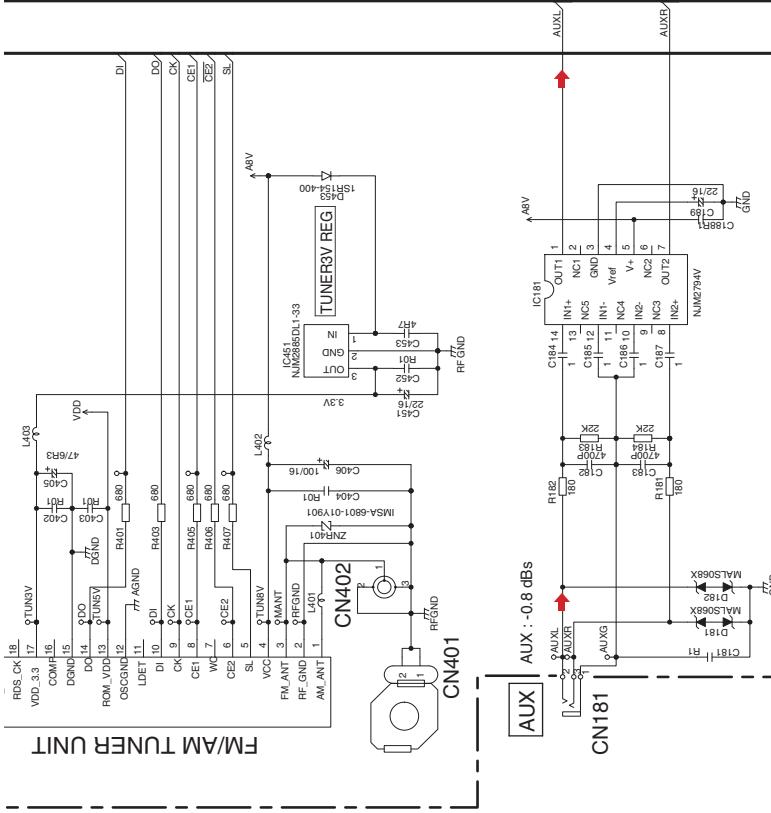
F

A-b

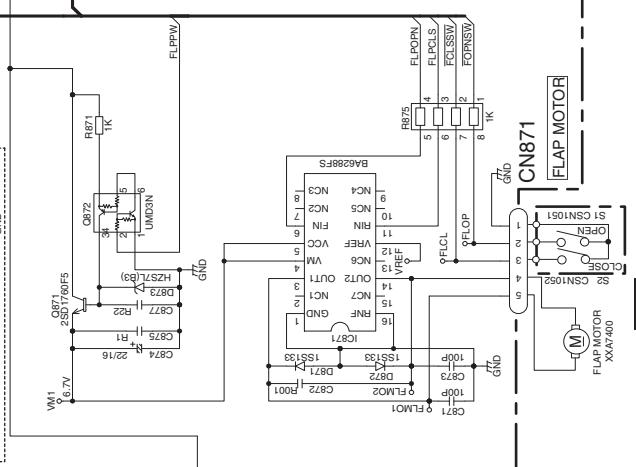




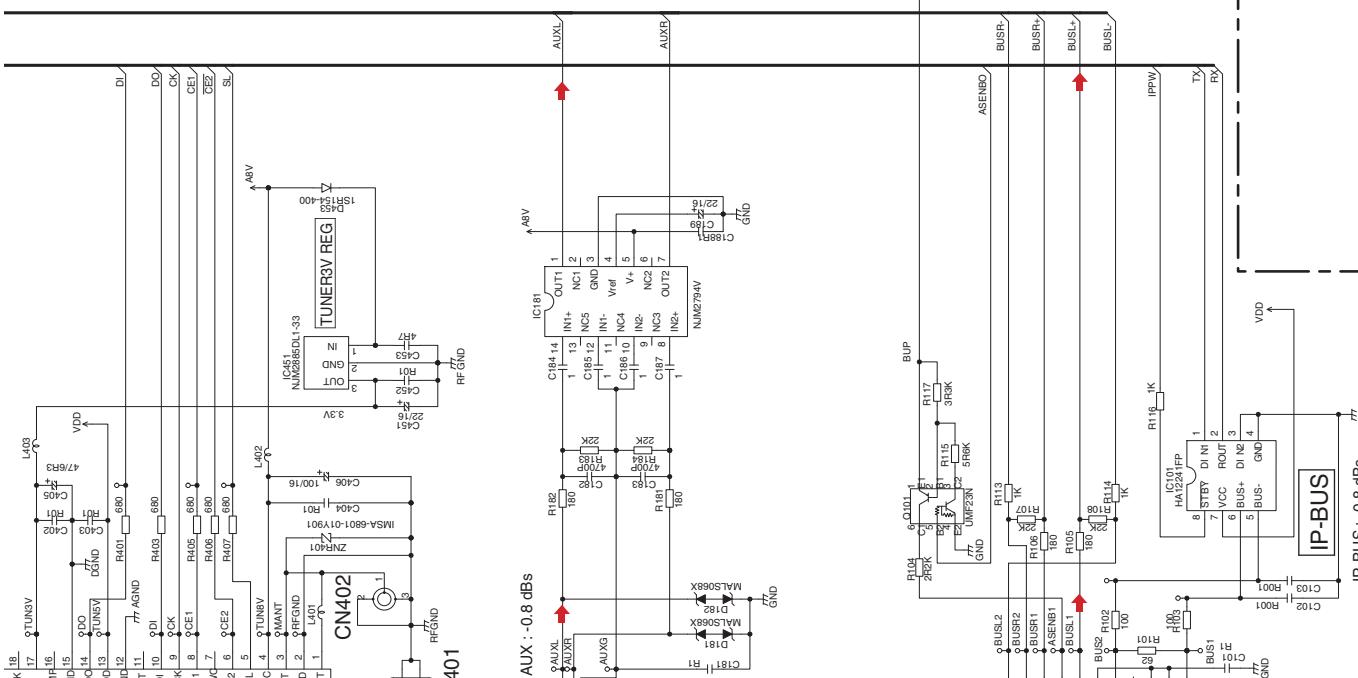
B CN180



FM/AM TUNER UNIT



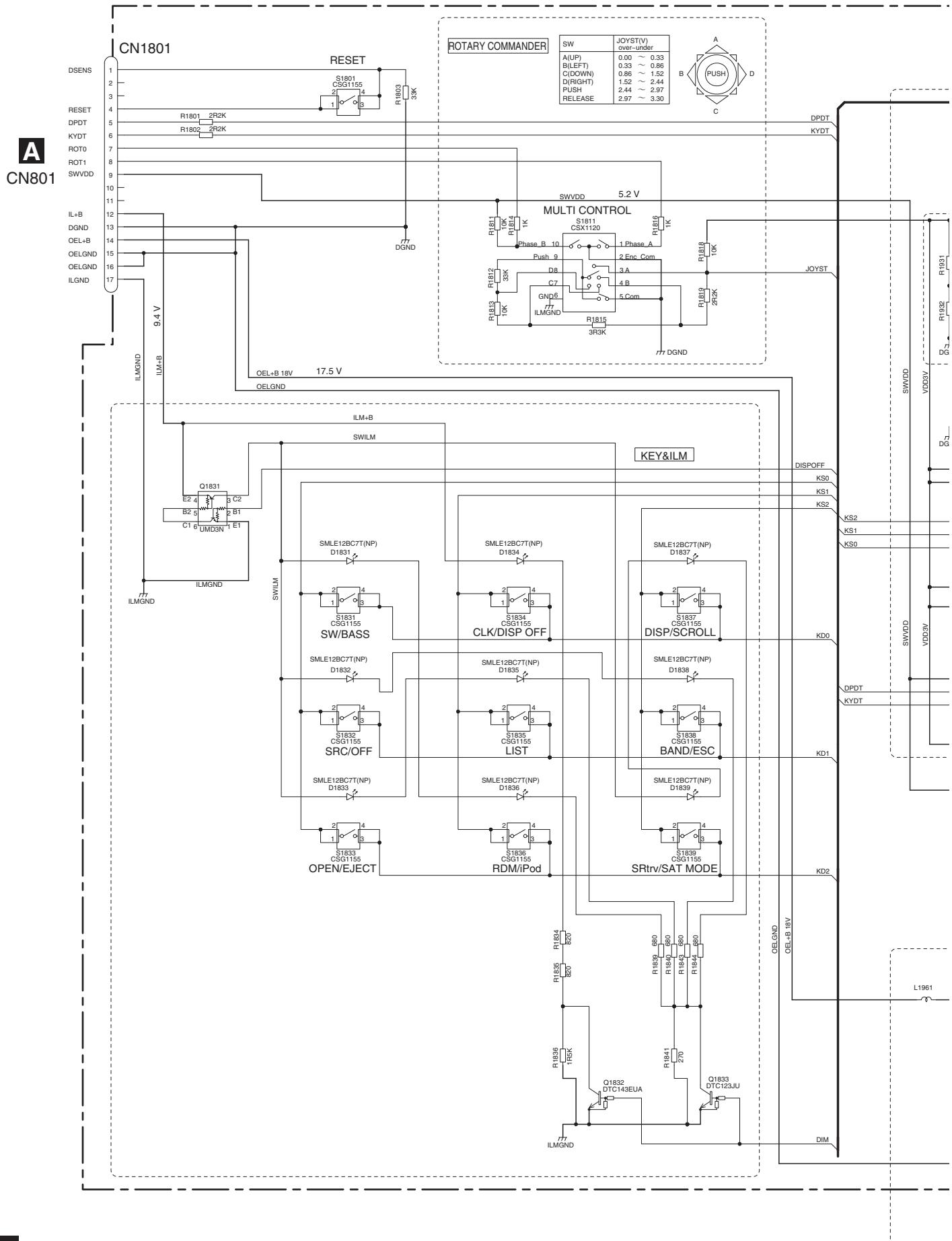
SWITCH UNIT



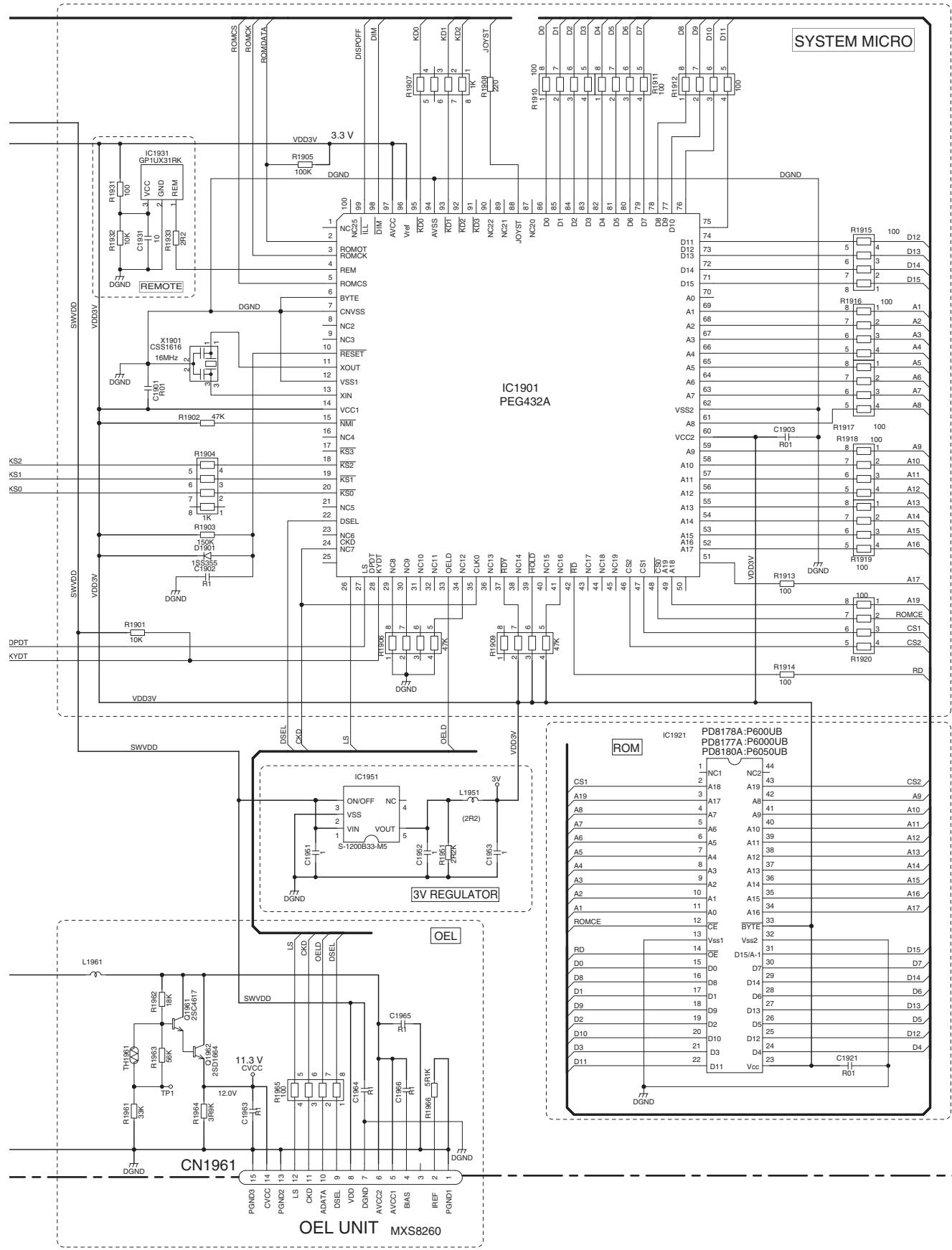
FM/AM TUNER UNIT CNN B B

**A-a D**

## 10.2 KEYBOARD UNIT



## B KEYBOARD UNIT



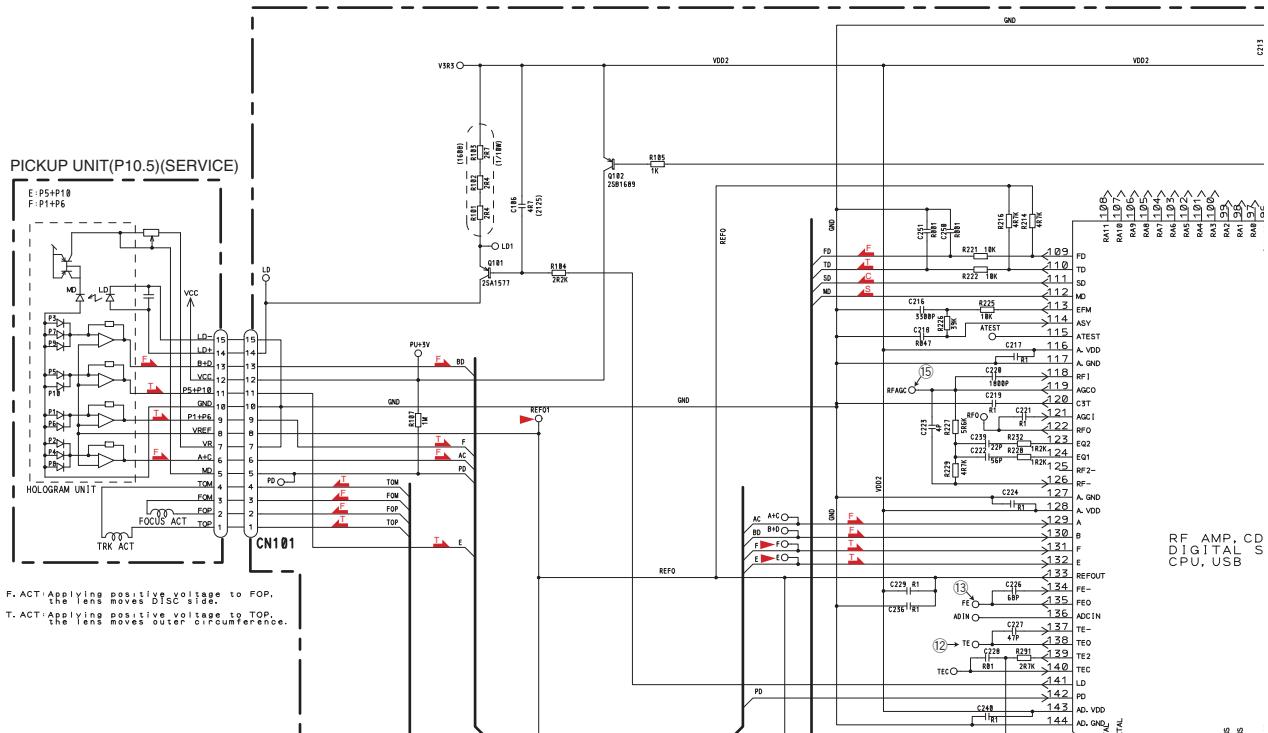
## B

## **10.3 CD MECHANISM MODULE(GUIDE PAGE)**

A

C-a

B



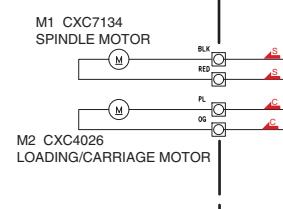
C

**SWITCHES:**  
 CD CORE UNIT(S10.5COMP2-iPod)  
 S901:HOME SWITCH.....ON-OFF  
 S903:DSCSNS SWITCH.....ON-OFF  
 S904:12EJ SWITCH.....ON-OFF  
 S905:REJ SWITCH.....ON-OFF

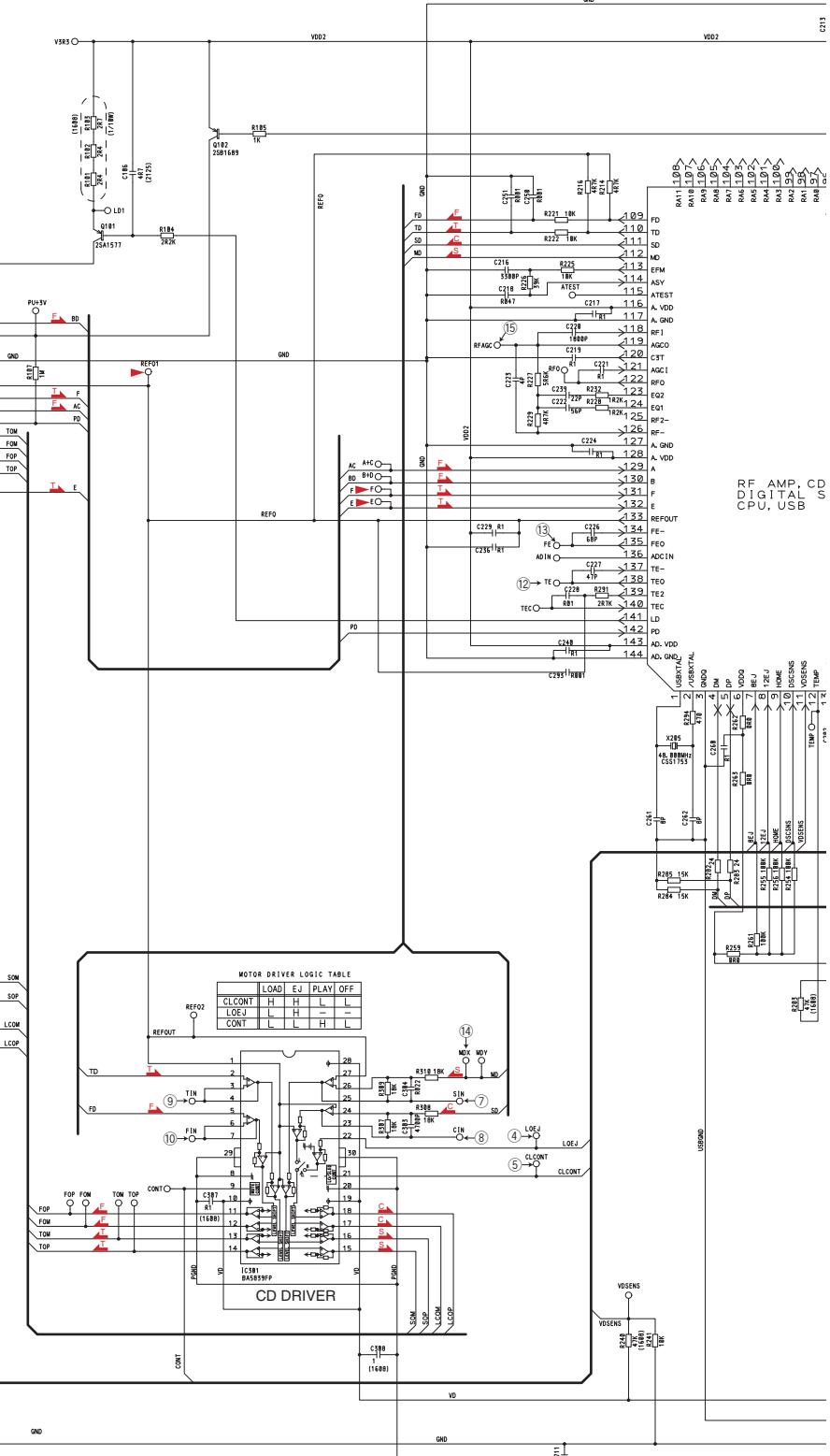
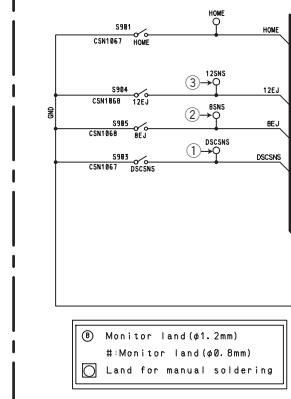
D S905:8EJ SWITCH.....ON-OFF

The underlined indicates the switch position

5



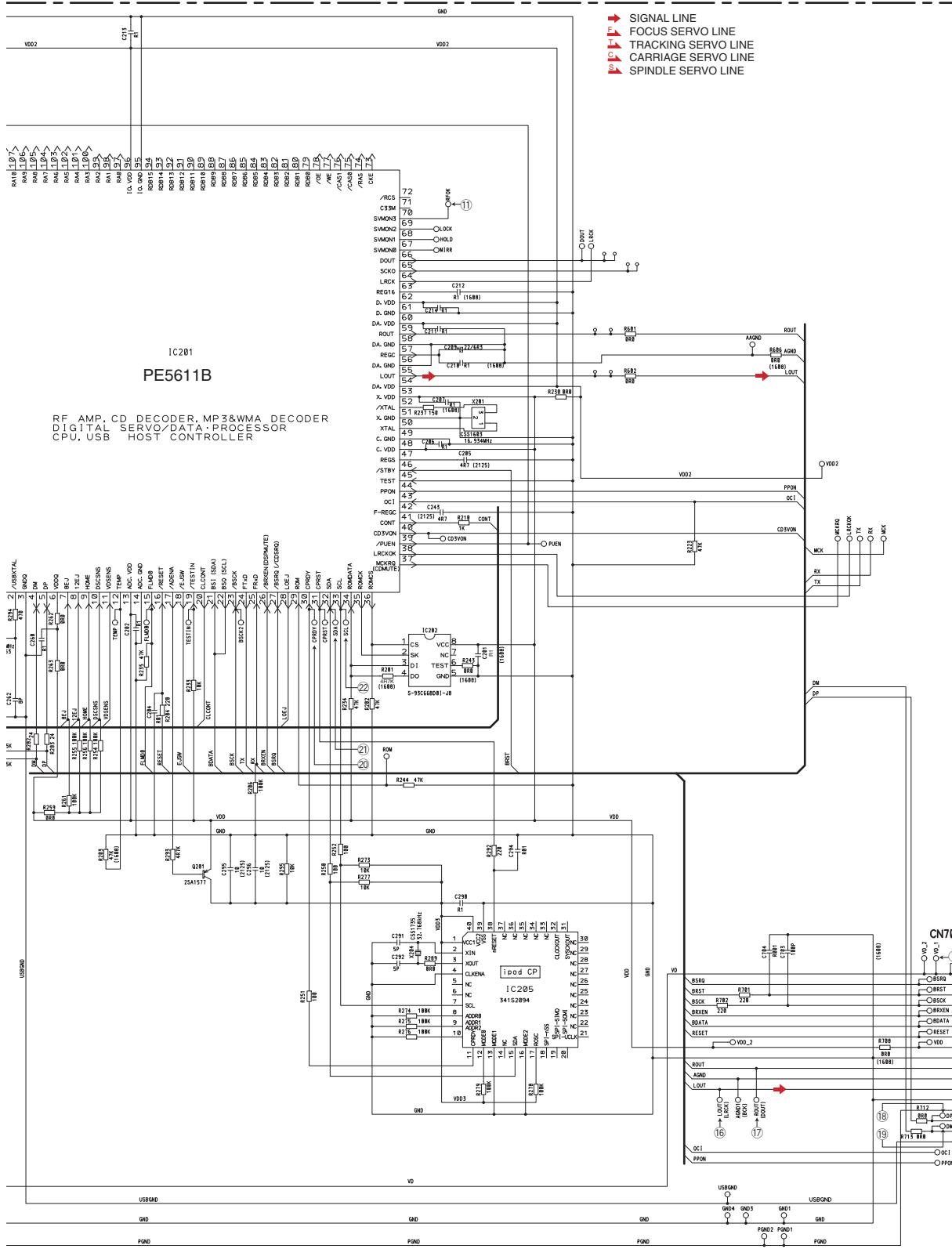
F



NOTE1) GND ... CD LSI, RFAMP, CPU  
PGND ... Actuator, Motor Driver  
AGND ... Audio  
These GND's are not connected to each other on PCB.  
PGND is connected to a floating mechanism part by a screw.

C-b

## C CD CORE UNIT(S10.5COMP2-iPod)



DEH-P600UB/XN/UC

A

B

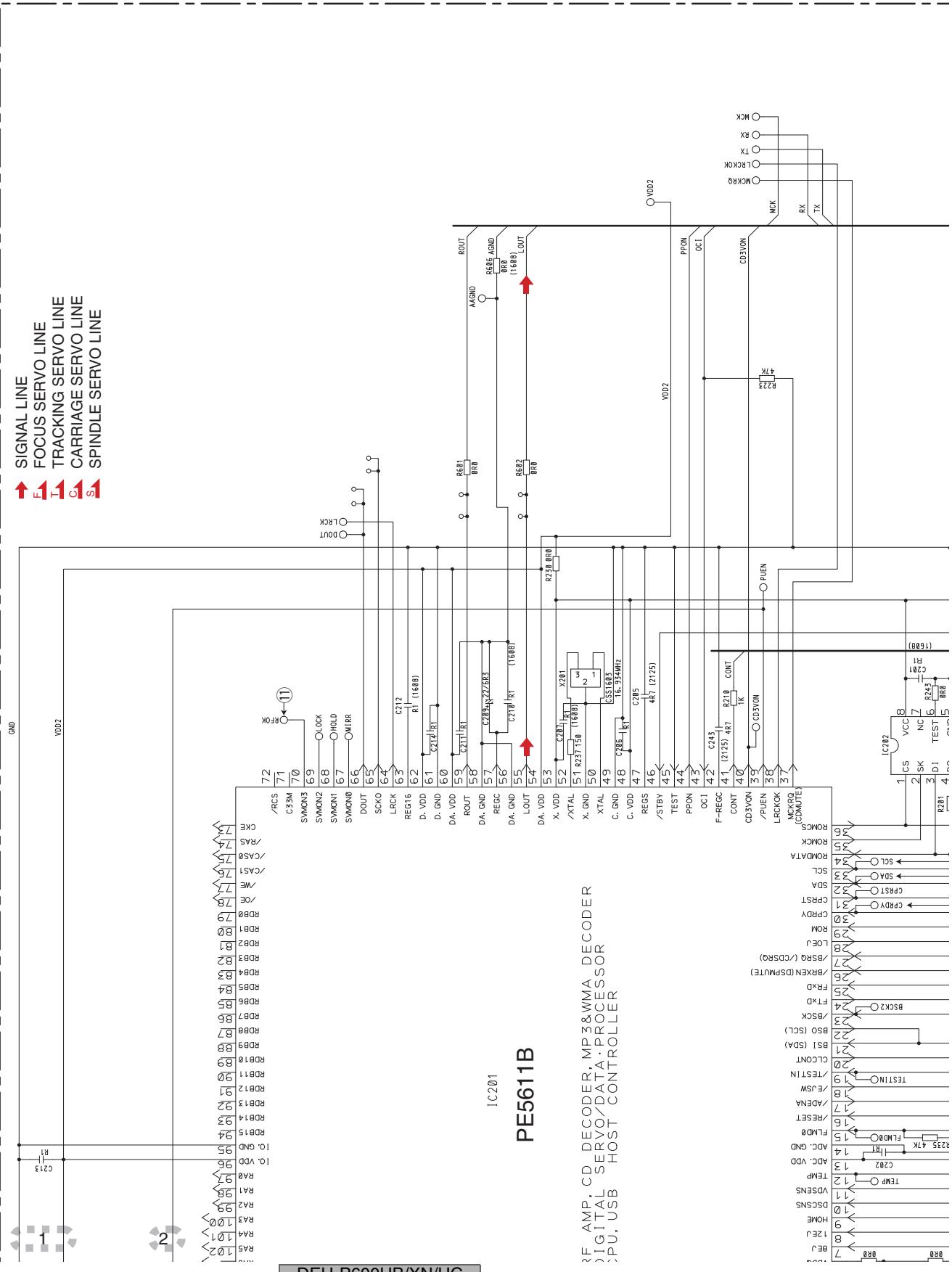
C

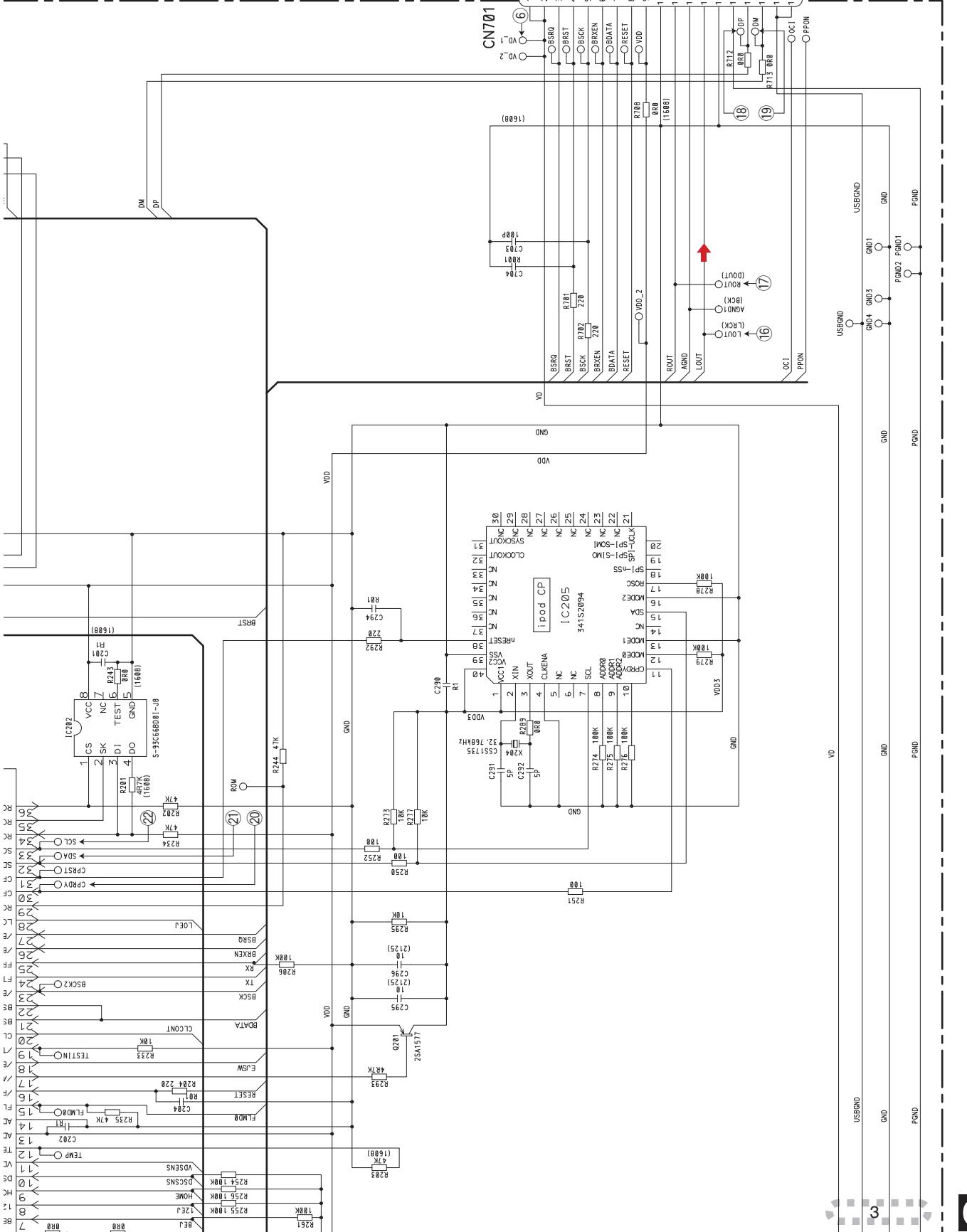
D

5

F

C CD CORE UNIT(S10.5COMP2-iPod)





1

2

3

4

1

C-b

C.

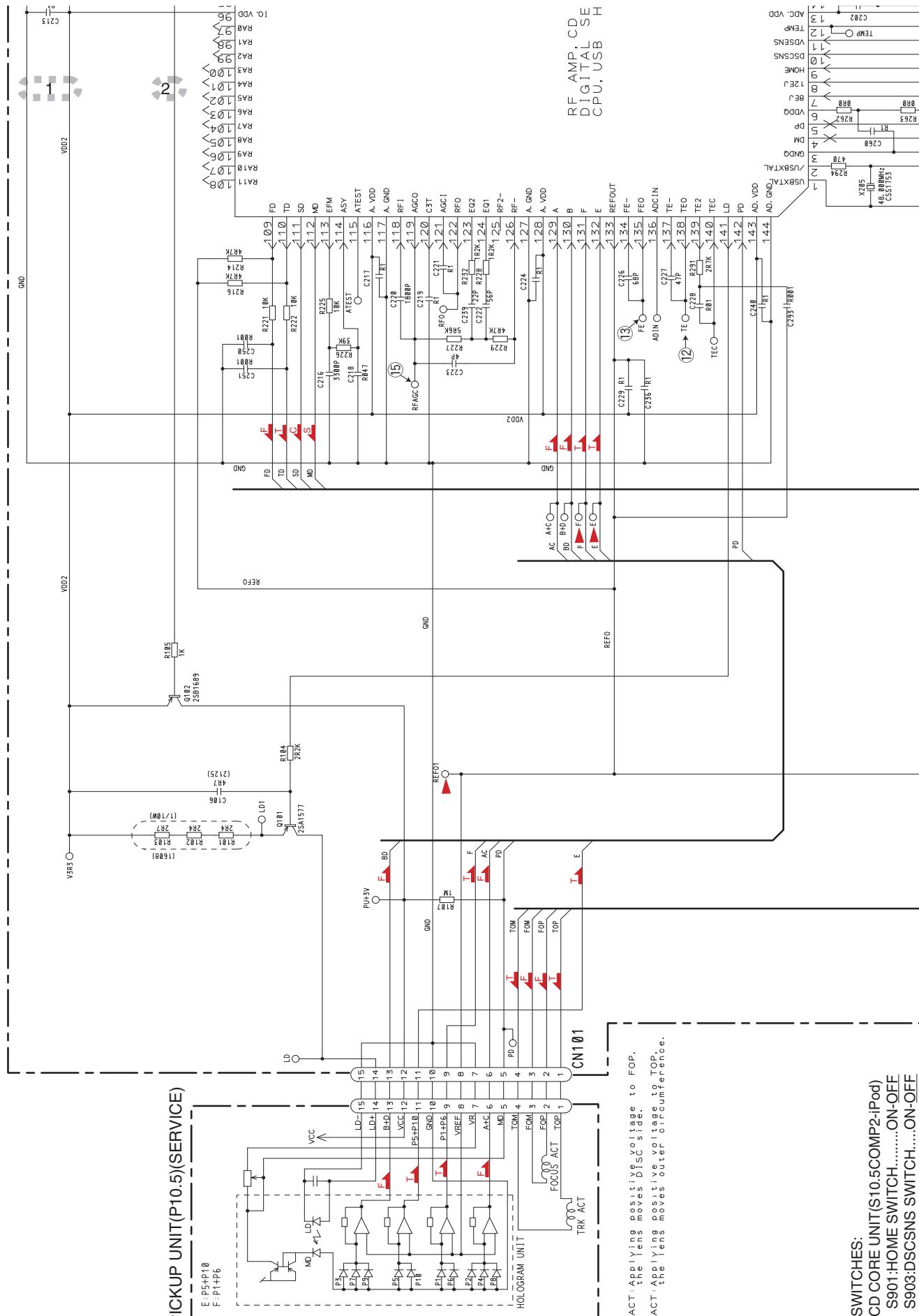
2

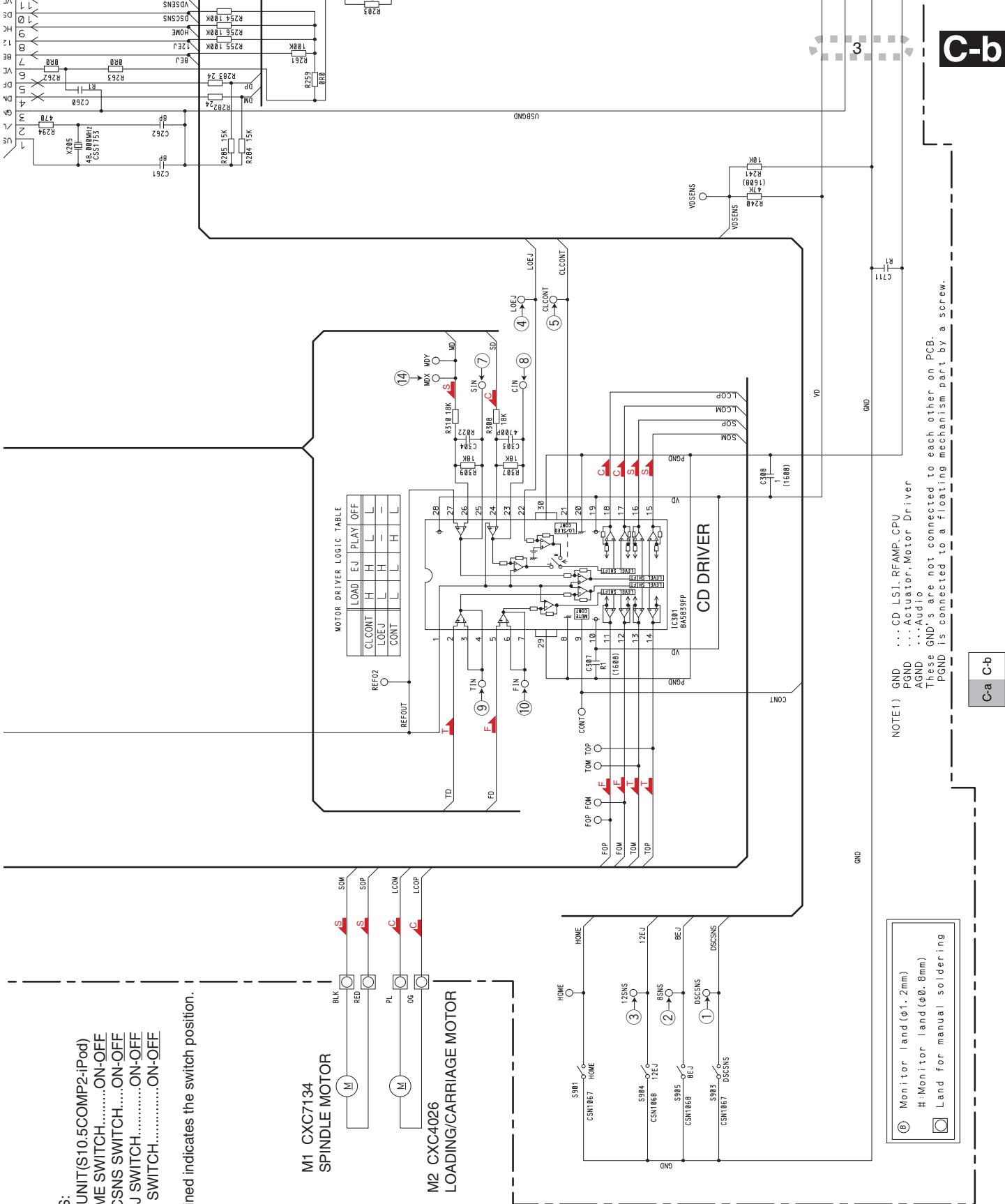
3

△

1                    2                    3                    4

**SWITCHES:**  
LCD CORE UNIT(S10.5COMP2-iPod)  
S901:HOME SWITCH.....ON-OFF  
S903:DSCSNS SWITCH.....ON-OFF




**C-a**
**C-b**

A

B

C

D

E

## 10.4 WAVEFORMS

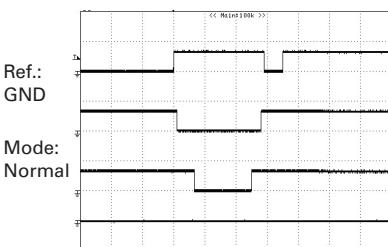
### ● CD CORE UNIT

Note : 1. The encircled numbers denote measuring points in the circuit diagram.  
 2. Reference voltage REFO1(1.65 V)

A

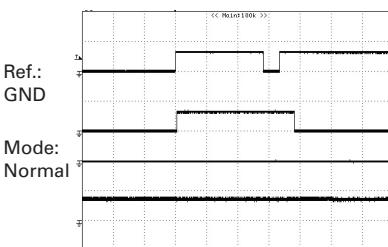
①DSCSNS 5 V/div 500 ms/div  
 ②8SNS 5 V/div  
 ③12SNS 5 V/div  
 ④LOEJ 5 V/div

12 cm CD Loading operation



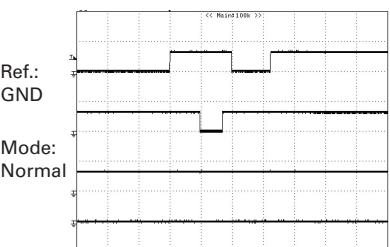
①DSCSNS 5 V/div 500 ms/div  
 ⑤CLCONT 5 V/div  
 ④LOEJ 5 V/div  
 ⑥VD 10 V/div

12 cm CD Loading operation



①DSCSNS 5 V/div 500 ms/div  
 ②8SNS 5 V/div  
 ③12SNS 5 V/div  
 ④LOEJ 5 V/div

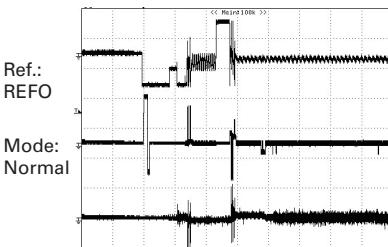
8 cm CD Loading operation



B

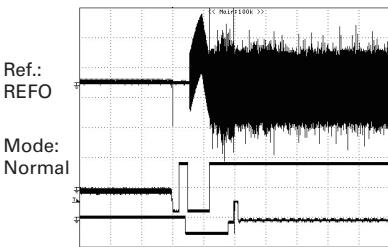
⑦SIN 1 V/div 1 s/div  
 ⑧CIN 500 mV/div  
 ⑨TIN 1 V/div

12 cm CD-DA setup operation after loading



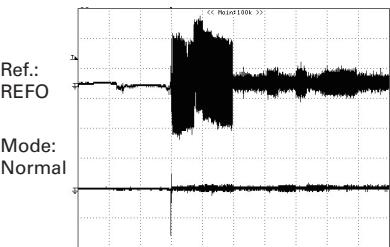
⑩FIN 200 mV/div 500 ms/div  
 ⑪RFOK(MONI\_3) 2 V/div  
 ⑦SIN 2 V/div

12 cm CD-DA Source On setup operation



⑫TE 500 mV/div 200 ms/div  
 ⑬FE 500 mV/div

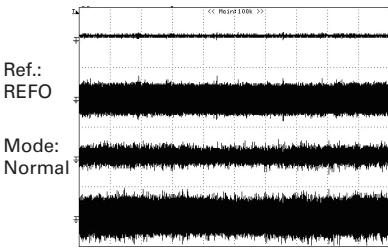
Source On setup operation



C

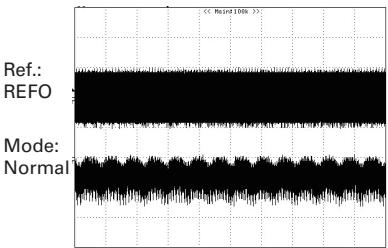
⑬FE 500 mV/div 20 ms/div  
 ⑩FIN 500 mV/div  
 ⑫TE 500 mV/div  
 ⑨TIN 500 mV/div

CD-DA Play operation



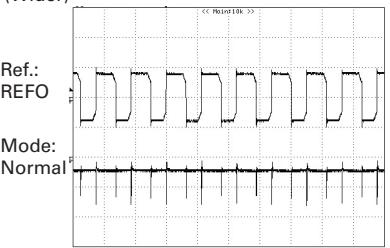
⑭MDX 2 V/div 200 ms/div  
 ⑦SIN 500 mV/div

Spindle waveform during play operation



⑭MDX 2 V/div 5  $\mu$ s/div  
 ⑦SIN 500 mV/div

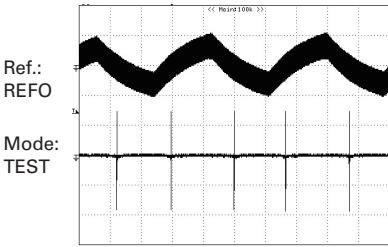
Spindle waveform during play operation (Wider)



D

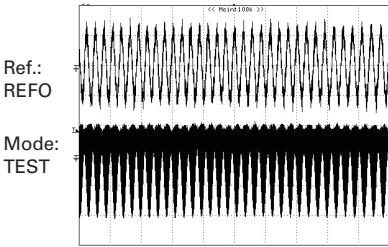
⑩FIN 500 mV/div 200 ms/div  
 ⑬FE 500 mV/div

Focus Search waveform



⑫TE 500 mV/div 2 ms/div  
 ⑮RFAGC 500 mV/div

Track Open waveform

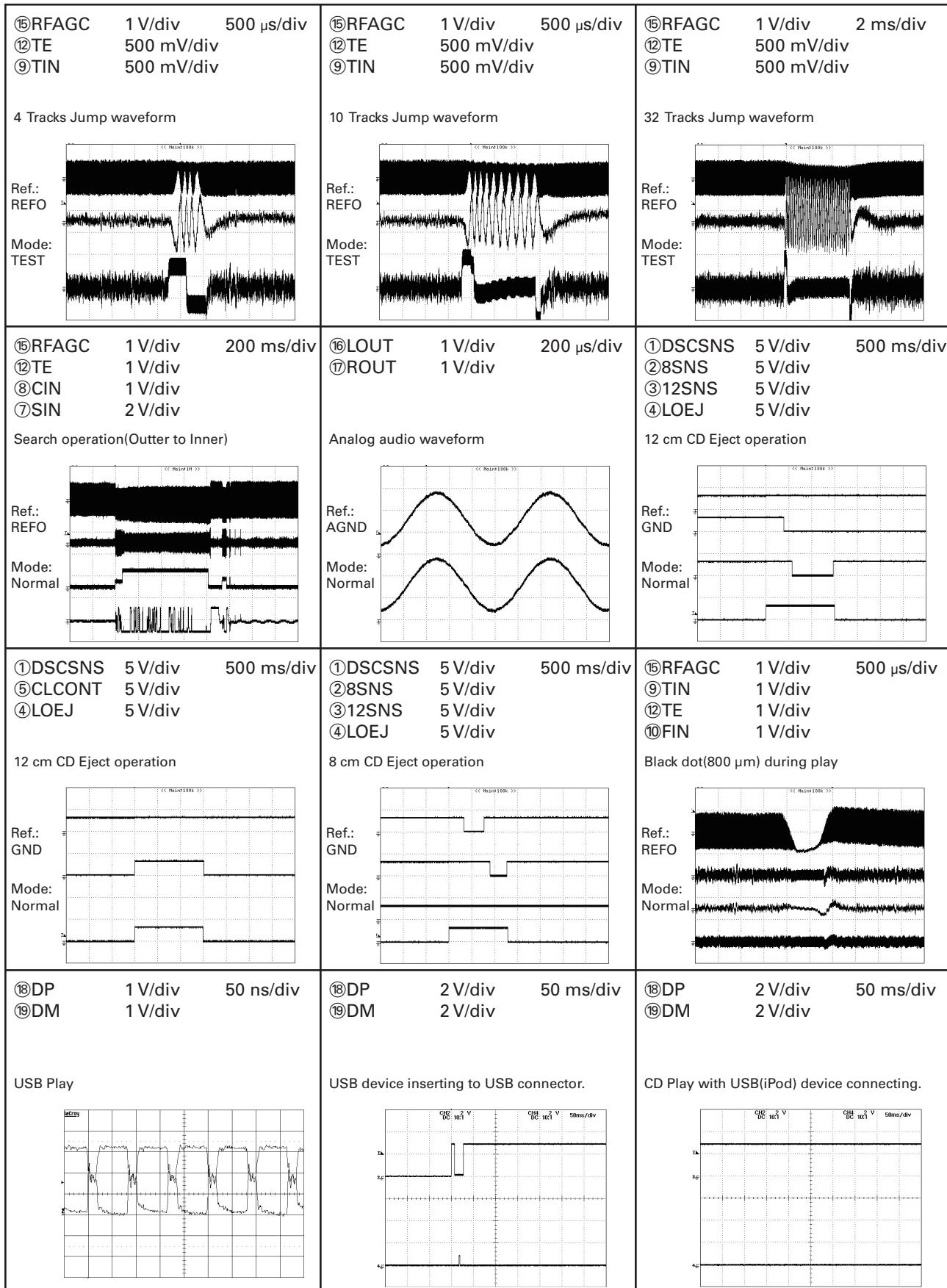


⑯RFAGC 1 V/div 500  $\mu$ s/div  
 ⑫TE 500 mV/div  
 ⑨TIN 500 mV/div

1 Track Jump waveform



E

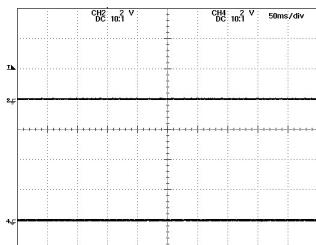


A

⑯DP 2 V/div  
⑯DM 2 V/div

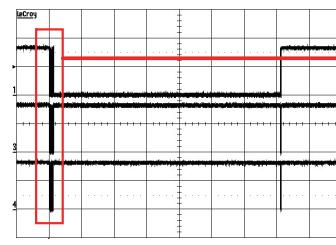
50 ms/div

ACC OFF with USB(iPod) device connecting.



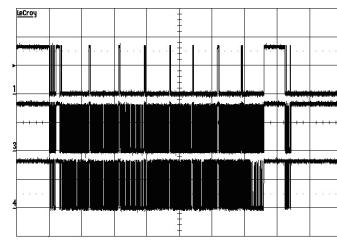
㉐CPRDY 2 V/div  
㉑SDA 2 V/div  
㉒SCL 2 V/div

iPod Authentication Operation



㉐CPRDY 2 V/div  
㉑SDA 2 V/div  
㉒SCL 2 V/div

iPod Authentication Operation(zoom until 2 s)



B

C

D

E

F

■ 5

■ 6

■ 7

■ 8

■ A

■ B

■ C

■ D

■ E

■ F

# 11. PCB CONNECTION DIAGRAM

## 11.1 TUNER AMP UNIT

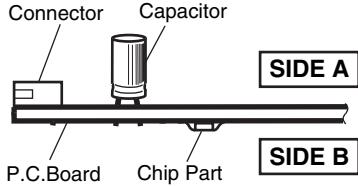
A

### NOTE FOR PCB DIAGRAMS

1.The parts mounted on this PCB include all necessary parts for several destination.

For further information for respective destinations, be sure to check with the schematic diagram.

2.Viewpoint of PCB diagrams



B

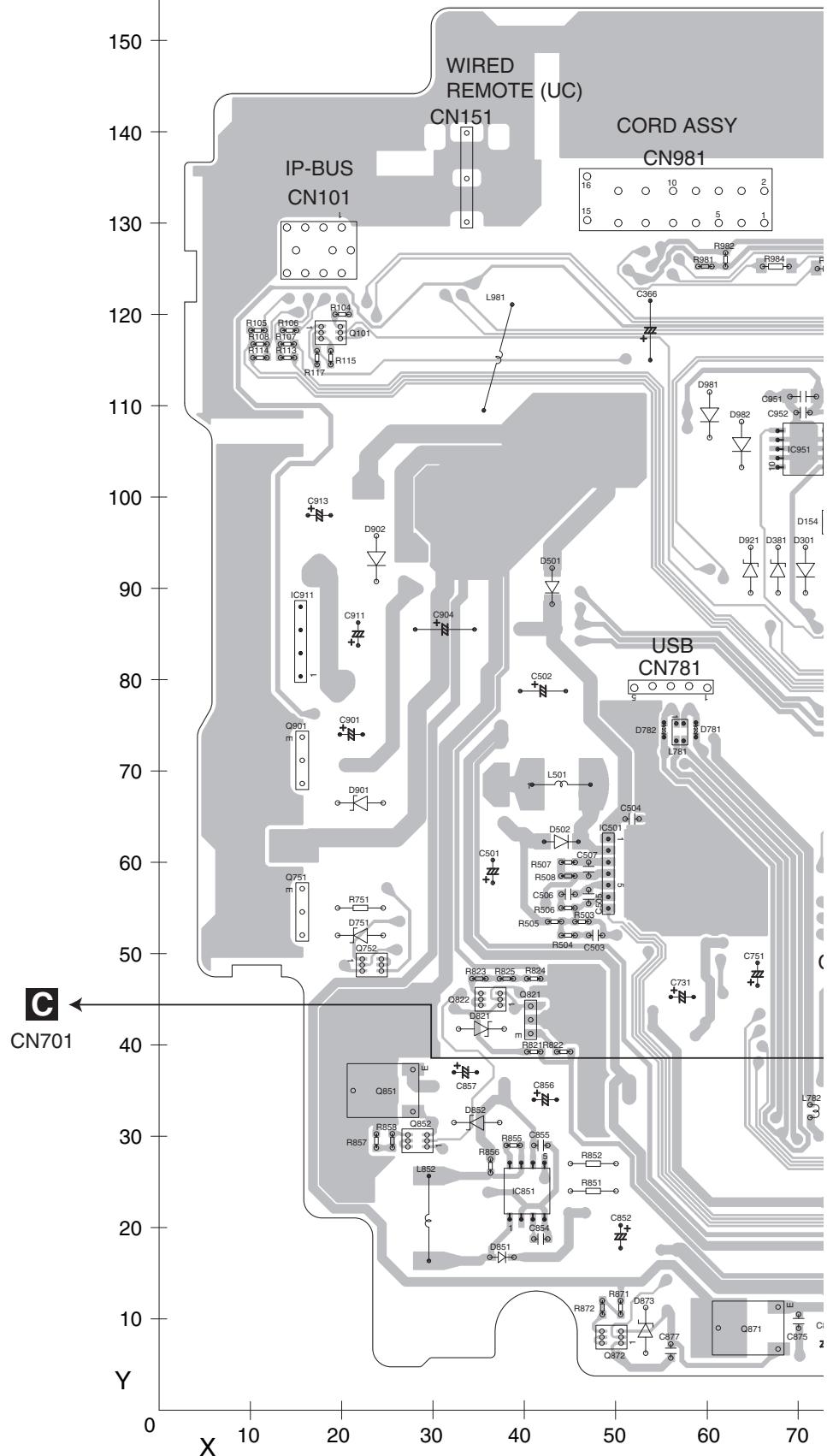
C

D

E

F

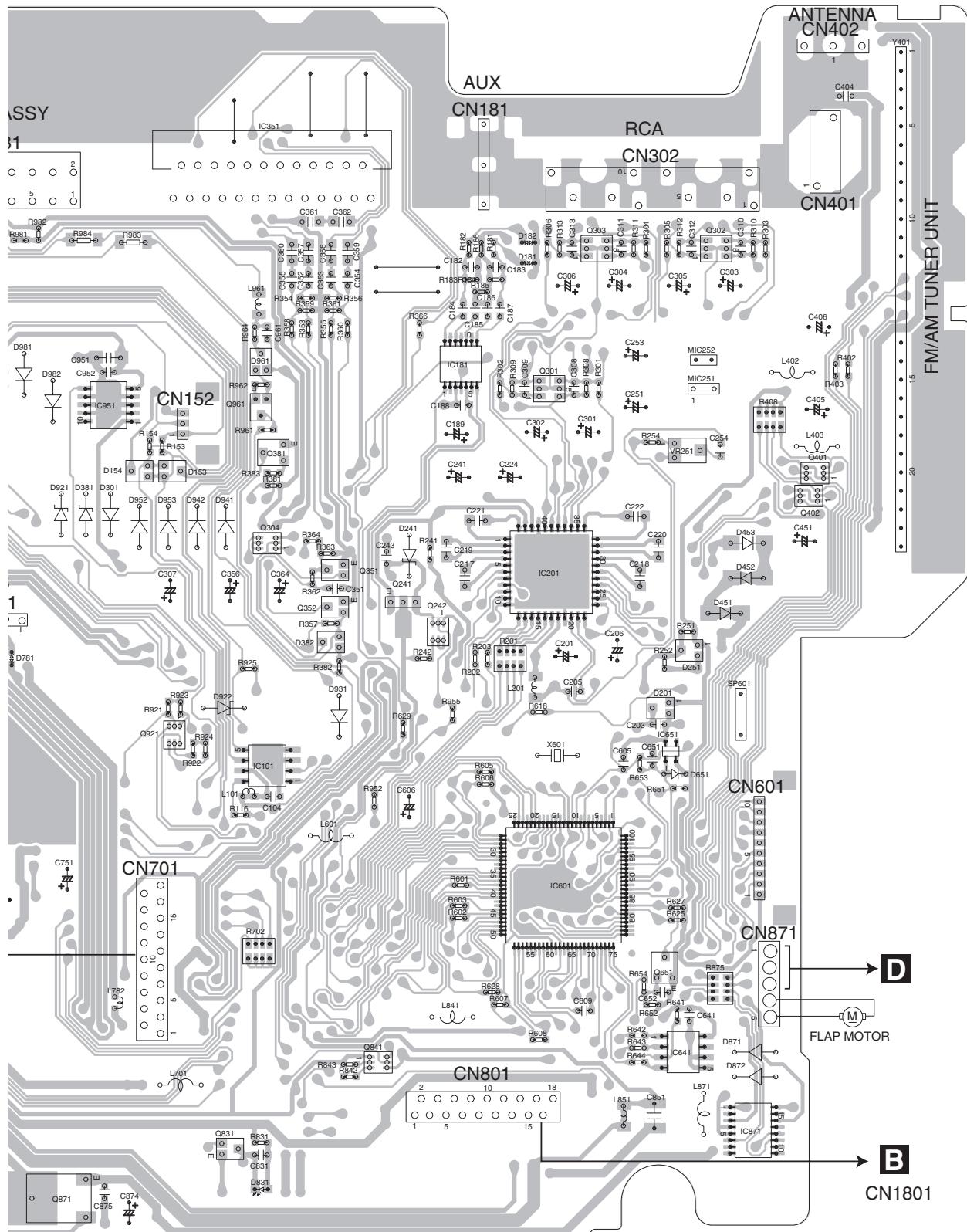
### A TUNER AMP UNIT



A

A

SIDE A



FRONT

A

A

## **A** TUNER AMP UNIT

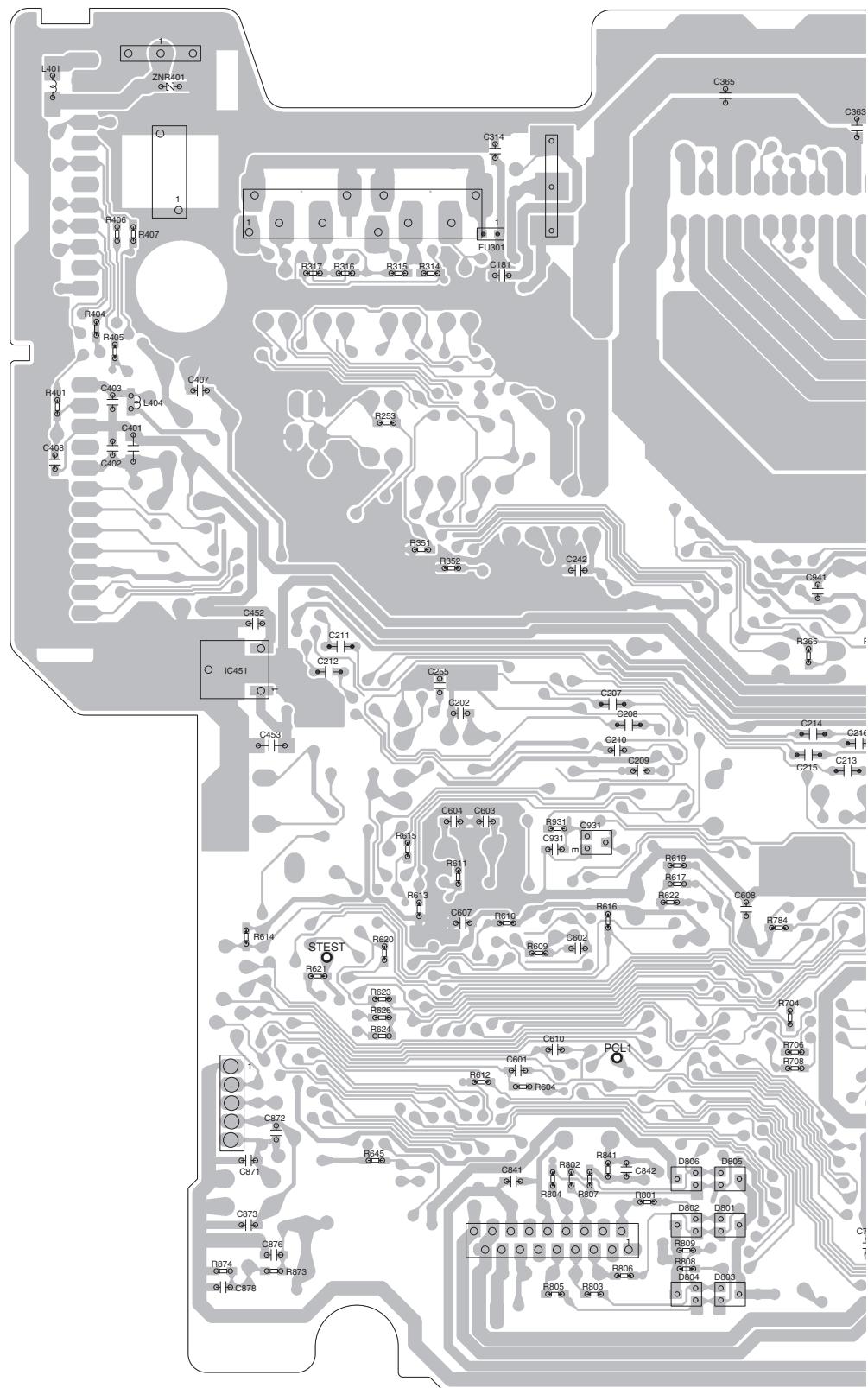
B

C

D

E

F



66

5

6

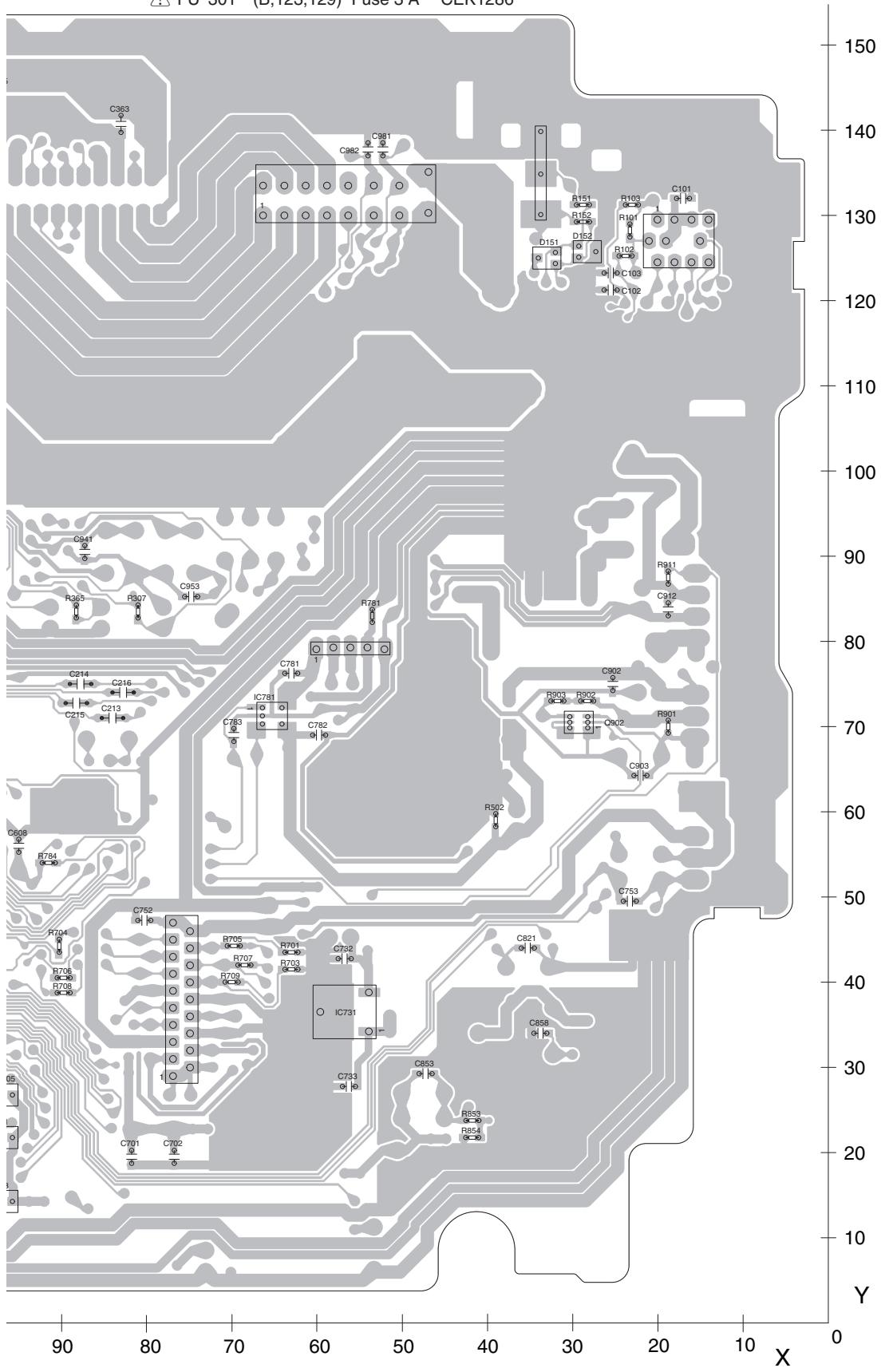
7

8

A

SIDE B

⚠ FU 301 (B,123,129) Fuse 3 A CEK1286



DEH-P600UB/XN/UC

67

8

## 11.2 KEYBOARD UNIT

## KEYBOARD UNIT

SIDE A

A

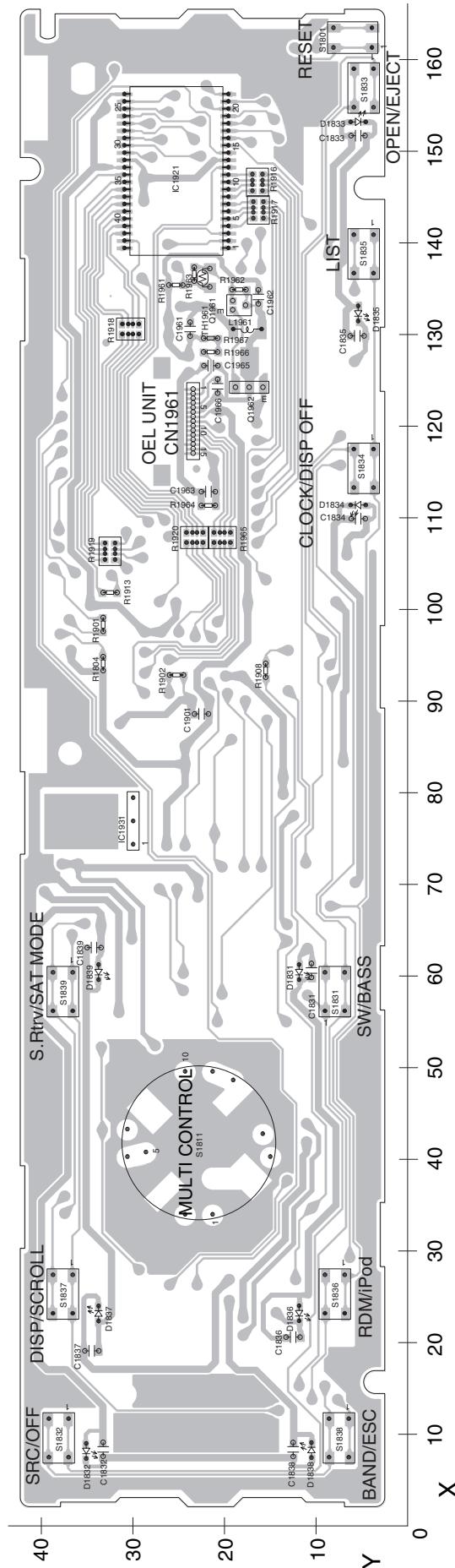
B

C

D

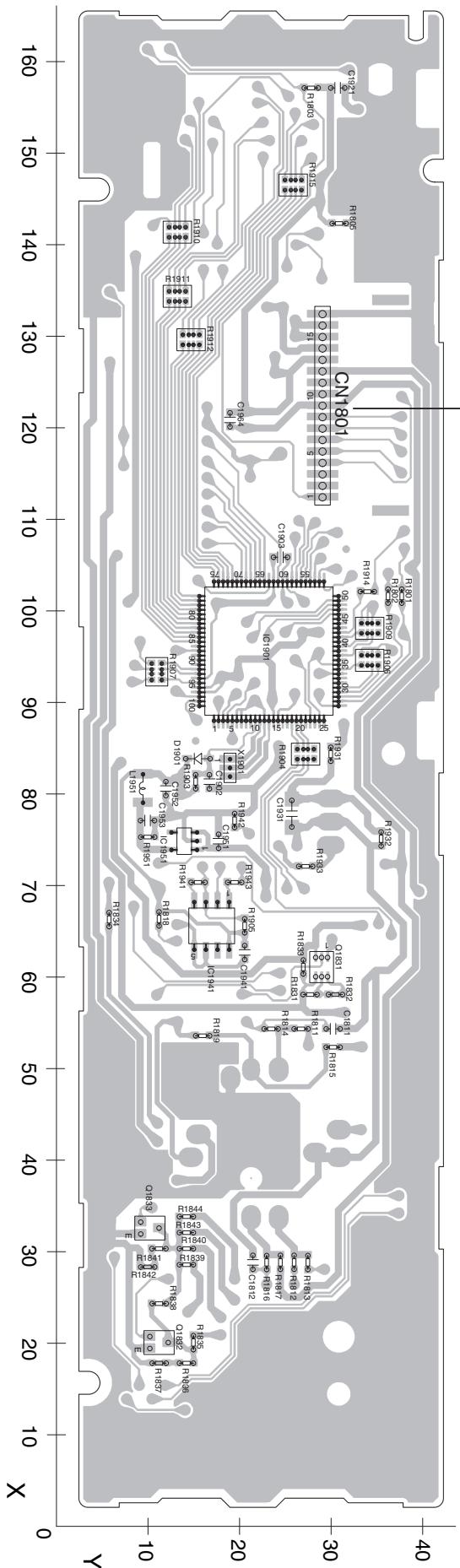
1

F



**B** KEYBOARD UNIT

SIDE B



**A** CN801

A

B

C

D

E

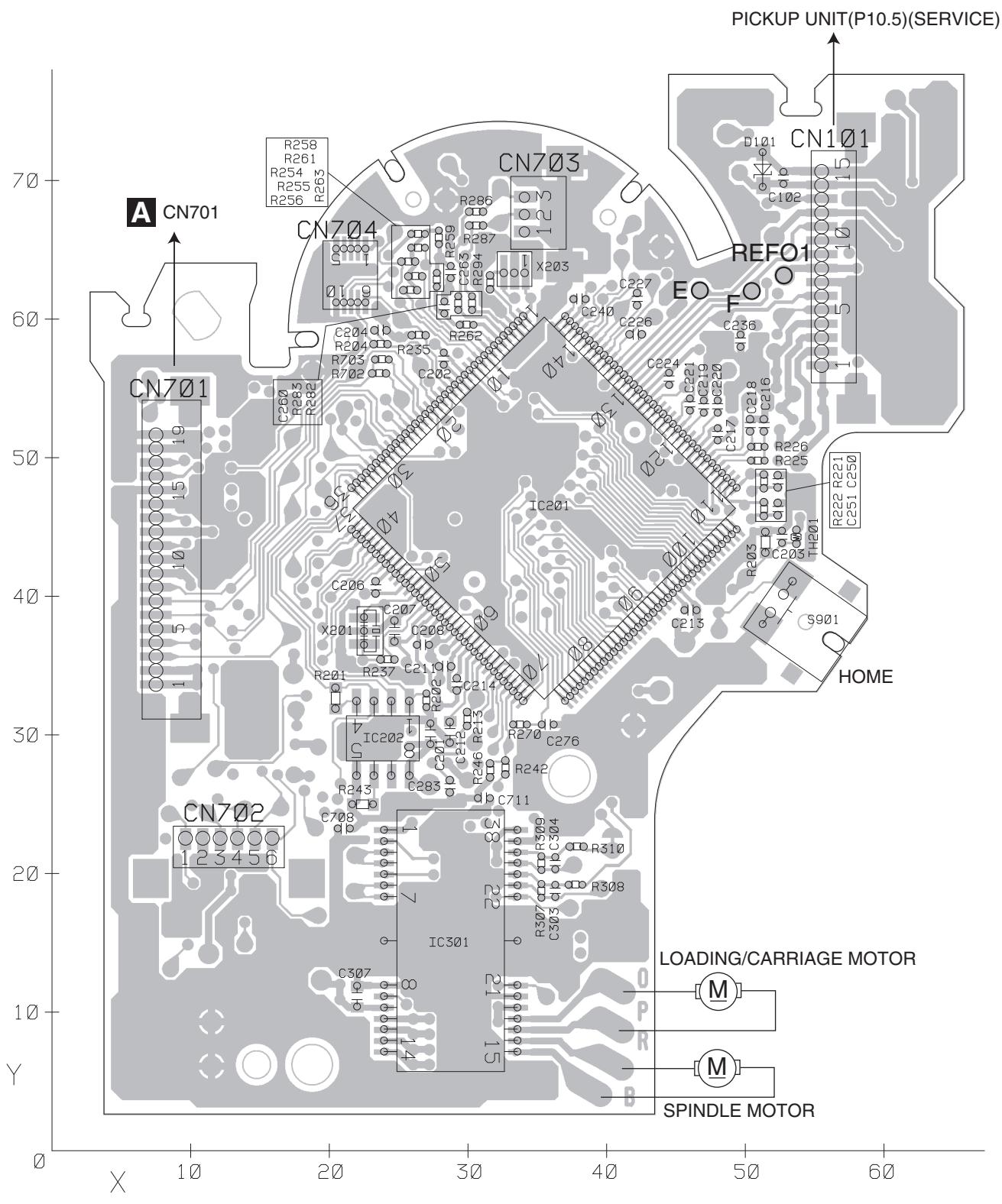
F

DEH-P600UB/XN/UC

## 11.3 CD CORE UNIT(S10.5COMP2-iPod)

**C** CD CORE UNIT(S10.5COMP2-iPod)

SIDE A



**C**

DEH-P600UB/XN/UC

70

1

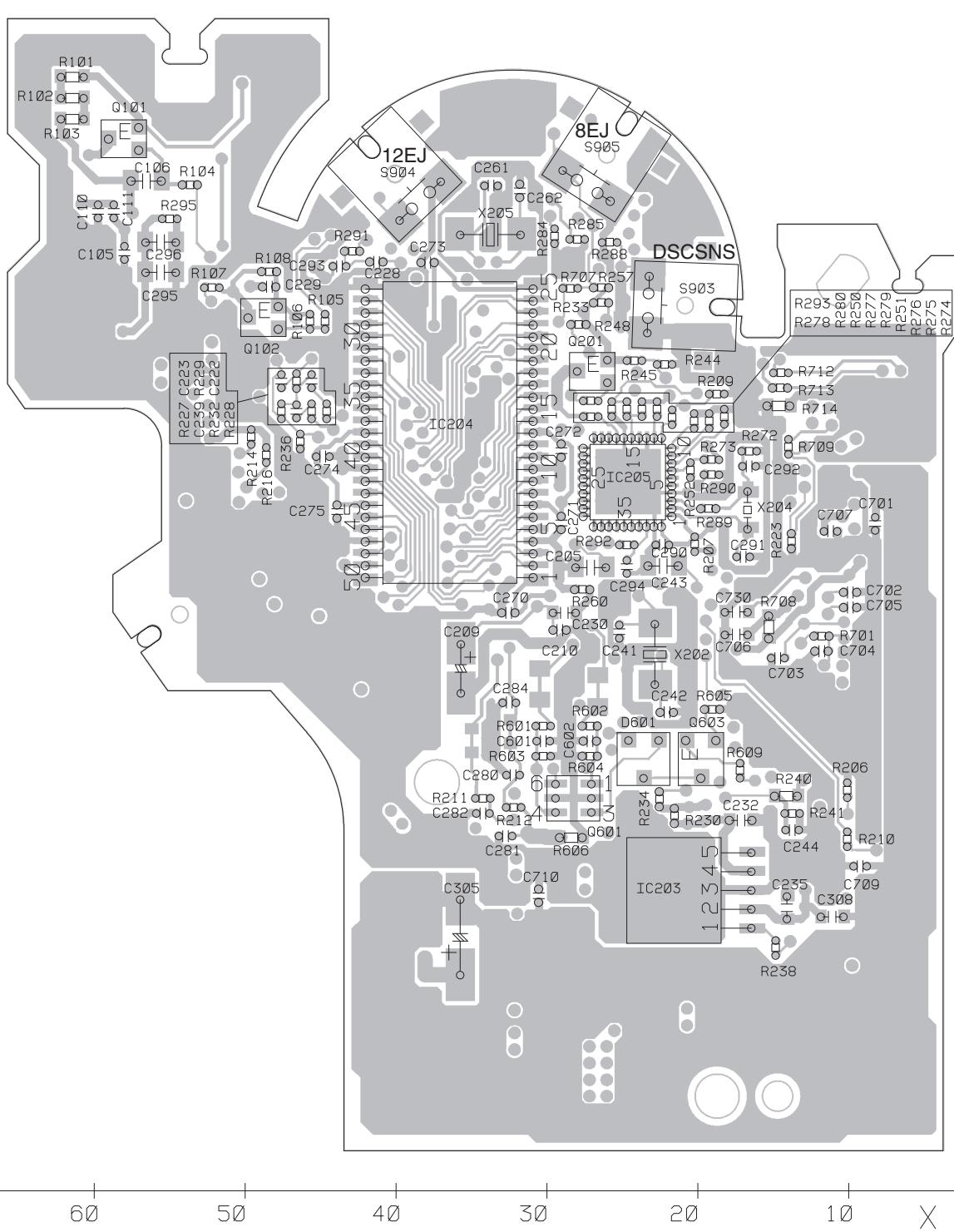
2

3

4

## **C** CD CORE UNIT(S10.5COMP2-iPod)

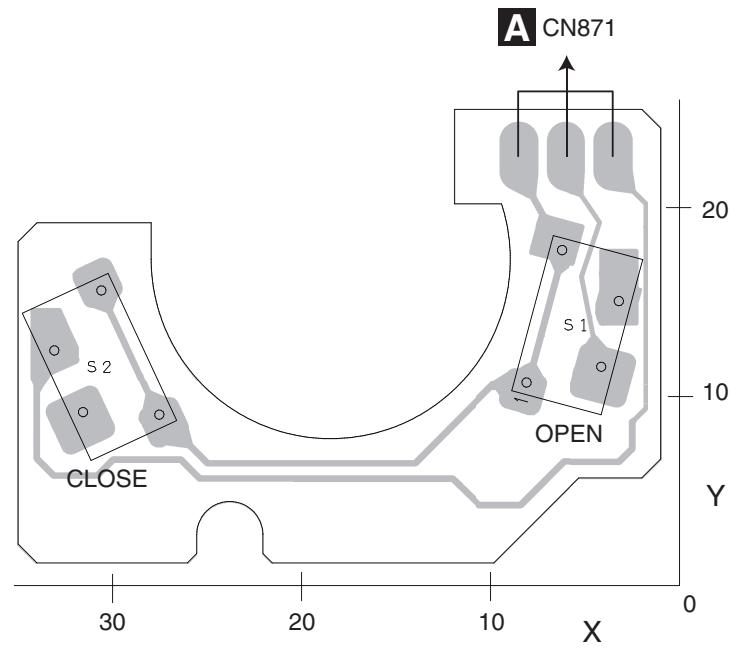
SIDE B



## 11.4 SWITCH UNIT

A

**D** SWITCH UNIT



B

C

D

E

F

**D**

## 12. ELECTRICAL PARTS LIST

**NOTE:**

- Parts whose parts numbers are omitted are subject to being not supplied.
- The part numbers shown below indicate chip components.

*Chip Resistor*

RS1/○S○○○J, RS1/○○S○○○J

*Chip Capacitor (except for CQS.....)*

CKS....., CCS....., CSZS.....

- The  mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
- Meaning of the figures and others in the parentheses in the parts list.

Example) IC 301 is on the point (face A, 91 of x-axis, and 111 of y-axis) of the corresponding PC board.

IC 301 (A, 91, 111) IC NJM2068V

<u>Circuit Symbol and No.</u>	<u>Part No.</u>	<u>Circuit Symbol and No.</u>	<u>Part No.</u>
<b>Unit Number: CWN3149(P600UB)</b>		IC 871 (A,149,17) IC	BA6288FS
<b>Unit Number: CWN3148(P6000UB)</b>		IC 911 (A,16,80) IC	NJM2388F84
<b>Unit Number: CWN3150(P6050UB)</b>		IC 951 (A,71,105) IC(P600UB)	TPD1018F
		Q 101 (A,19,118) Transistor	UMF23N
<b>Unit Name : Tuner Amp Unit</b>		Q 241 (A,106,80) Transistor	2SD1767
<b>Unit Number: (P600UB)</b>		Q 242 (A,111,78) Transistor	UMD3N
<b>Unit Number: (P6000UB)</b>		Q 301 (A,124,107) Transistor	IMH23
<b>Unit Number: (P6050UB)</b>		Q 302 (A,144,124) Transistor	IMH23
<b>Unit Name : Keyboard Unit</b>		Q 303 (A,130,124) Transistor	IMH23
<b>Unit Number: CWX3526</b>		Q 304 (A,90,89) Transistor	UMD3N
<b>Unit Name : CD Core Unit</b>		Q 351 (A,98,85) Chip Transistor	DTC114EUA
<b>(S10.5COMP2-iPod)</b>		Q 352 (A,98,81) Chip Transistor	DTC114EUA
<b>Unit Number: CWS1389</b>		Q 381 (A,91,100) Transistor	2SC3052-12
<b>Unit Name : Switch Unit</b>		Q 651 (A,138,37) Transistor	2SC3052-12
		Q 751 (A,15,55) Transistor	2SD2396
		Q 752 (A,23,49) Transistor	UMD3N
		Q 821 (A,43,43) Transistor	2SD1767
		Q 822 (A,36,45) Transistor	UMD3N
		Q 831 (A,85,15) Chip Transistor	DTC114EUA
		Q 841 (A,103,26) Transistor	UMF23N
		Q 851 (A,23,35) Transistor	2SD1760F5
		Q 852 (A,28,30) Transistor	UMD3N
		Q 871 (A,63,9) Transistor	2SD1760F5
		Q 872 (A,50,8) Transistor	UMD3N
<b>A</b>			
<b>Unit Number: CWN3149(P600UB)</b>		Q 901 (A,15,71) Transistor	2SD2396
<b>Unit Number: CWN3148(P6000UB)</b>		Q 902 (B,29,71) Transistor	UMD3N
<b>Unit Number: CWN3150(P6050UB)</b>		Q 921 (A,79,65) Transistor	UMX1N
<b>Unit Name : Tuner Amp Unit</b>		Q 931 (B,111,63) Chip Transistor	DTC114EUA
		Q 961 (A,89,105) Transistor	2SA1576A

**MISCELLANEOUS**

IC 101 (A,90,62) IC	HA122241FP	D 181 (A,122,123) Diode	MALS068X
IC 181 (A,113,110) IC	NJM2794V	D 182 (A,122,125) Diode	MALS068X
IC 201 (A,124,85) IC	PML017A	D 201 (A,138,69) Diode Network	DA204U
IC 351 (A,90,136) IC	PAL007C	D 241 (A,107,87) Diode	HZS12L(B1)
IC 451 (B,152,82) IC	NJM2885DL1-33	D 301 (A,71,92) Diode	1SS133
		D 381 (A,68,92) Diode	HZS9L(A3)
IC 501 (A,54,59) Regulator IC	BD9781HFP	D 382 (A,98,77) Diode	DAN202U
IC 601 (A,126,47) IC	PEG430B8	D 453 (A,148,89) Diode	1SR154-400
IC 651 (A,139,63) IC	S-80835CNNB-B8U	D 501 (A,43,90) Diode	1SR154-400
IC 731 (B,59,37) IC	NJM2885DL1-33	D 502 (A,44,62) Diode	RB060L-40
IC 781 (B,65,71) IC	R5523N001B	D 751 (A,22,52) Diode	HZS7L(C3)
IC 851 (A,40,24) IC	NJM2360M	D 801 (B,97,22) Diode	DAP202U

	<u>1</u> <b>Circuit Symbol and No.</b>	<u>2</u> <b>Part No.</b>	<u>3</u> <b>Circuit Symbol and No.</b>	<u>4</u> <b>Part No.</b>	
D 802	(B,102,22) Diode	DAN202U	R 181	(A,117,124)	
D 803	(B,97,14) Diode	DAP202U	R 182	(A,114,124)	
D 804	(B,102,14) Diode	DAN202U	R 183	(A,115,121)	
A D 805	(B,97,27) Diode	DAP202U	R 184	(A,118,121)	
D 806	(B,102,27) Diode	DAN202U	R 201	(A,119,75)	
D 821	(A,35,42) Diode	HZS11L(A1)	R 202	(A,115,75)	
D 831	(A,89,10) LED	SMLE12BC7T(NP)	R 203	(A,117,75)	
D 851	(A,38,17) Diode	RB551V-30	R 242	(A,109,75)	
D 852	(A,35,32) Diode	HZS11L(A1)	R 301	(A,130,107)	
D 871	(A,149,27) Diode	1SS133	R 302	(A,118,107)	
D 872	(A,149,24) Diode	1SS133	R 303	(A,150,124)	
D 873	(A,53,9) Diode	HZS7L(B3)	R 304	(A,136,124)	
D 901	(A,22,67) Diode	HZS6L(B1)	R 305	(A,138,124)	
B D 902	(A,24,93) Diode	MPG06G-6415G50	R 306	(A,124,124)	
D 921	(A,65,92) Diode	HZS7L(C3)	R 307	(B,81,84)	
D 922	(A,85,69) Diode	HZS7L(B2)	R 308	(A,129,107)	
D 931	(A,99,68) Diode	MPG06G-6415G50	R 309	(A,120,107)	
D 941	(A,85,91) Diode(P6000UB, P6050)	MPG06G-6415G50	R 310	(A,149,124)	
D 942	(A,81,91) Diode(P6000UB, P6050)	MPG06G-6415G50	R 311	(A,134,124)	
D 952	(A,74,91) Diode(P600UB)	MPG06G-6415G50	R 312	(A,140,124)	
D 953	(A,78,91) Diode(P600UB)	MPG06G-6415G50	R 313	(A,125,124)	
D 961	(A,89,111) Diode	DAN202U	R 314	(B,129,125)	
D 981	(A,60,109) Diode	MPG06G-6415G50	R 316	(B,139,125)	
D 982	(A,64,106) Diode	MPG06G-6415G50	R 351	(B,130,95)	
C ZNR401	(B,158,145) Surge Protector	IMSA-6801-01Y901	R 352	(B,127,93)	
L 201	(A,122,71) Inductor	LCTAW2R2J2520	R 353	(A,95,115)	
L 401	(B,170,145) Inductor	LCTAW220J2520	R 354	(A,95,118)	
L 402	(A,154,109) Inductor	LAU1R0K	R 355	(A,98,115)	
L 403	(A,157,100) Inductor	LAU2R2K	R 356	(A,98,118)	
L 501	(A,44,69) Inductor	CTH1385	R 357	(A,98,79)	
L 601	(A,98,53) Ferri-Inductor	LAU100K	R 358	(A,93,115)	
L 781	(A,57,74) Inductor	CTF1713	R 359	(A,95,117)	
L 782	(A,71,33) Inductor	CTF1379	R 360	(A,100,115)	
L 841	(A,112,31) Ferri-Inductor	LAU100K	R 361	(A,98,117)	
L 852	(A,30,21) Inductor	CTF1660	R 362	(A,95,84)	
D L 961	(A,89,118) Inductor	LCTAW2R2J2520	R 363	(A,97,87)	
L 981	(A,35,109) Choke Coil 600 $\mu$ H	CTH1280	R 364	(A,95,89)	
X 601	(A,125,63) Crystal Resonator	15.000 MHz	CSS1653	R 365	(B,88,84)
△ FU301	(B,123,129) Fuse 3 A	CEK1286	R 366	(A,108,115)	
△	Fuse 10A	YEK5001	R 381	(A,91,96)	
SP601	(A,147,68) Buzzer	CPV1062	R 382	(A,99,74)	
Y 401	(A,167,148) FM/AM Tuner Unit	CWE2098	R 383	(A,91,97)	
<b>RESISTORS</b>					
E R 101	(B,23,128)	RS1/16S620J	R 406	(B,163,129)	
R 102	(B,24,125)	RS1/16S101J	R 407	(B,162,129)	
R 103	(B,23,131)	RS1/16S101J	R 502	(B,39,59)	
R 104	(A,20,120)	RS1/16S222J	R 503	(A,46,54)	
R 105	(A,11,118)	RS1/16S181J	R 504	(A,45,52)	
R 106	(A,14,118)	RS1/16S181J	R 505	(A,43,54)	
R 107	(A,14,117)	RS1/16S223J	R 506	(A,45,55)	
R 108	(A,11,117)	RS1/16S223J	R 507	(A,45,60)	
R 113	(A,14,115)	RS1/10SR102J	R 601	(A,113,47)	
R 114	(A,11,115)	RS1/10SR102J	R 602	(A,113,43)	
R 115	(A,19,115)	RS1/16S562J	R 603	(A,113,45)	
R 116	(A,87,56)	RS1/10SR102J	R 604	(B,119,37)	
F R 117	(A,17,115)	RS1/16S332J	R 605	(A,116,61)	
R 151	(B,29,131) (P600UB, P6000UB)	RS1/16S102J	R 606	(A,116,59)	
R 152	(B,29,129) (P600UB, P6000UB)	RS1/16S102J	R 607	(A,118,33)	

**Circuit Symbol and No.**

R 608	(A,123,28)	RS1/16S104J
R 609	(B,118,51)	RS1/16S222J
R 610	(B,121,55)	RS1/16S473J
R 611	(B,126,60)	RS1/16S0R0J
R 612	(B,124,37)	RS1/16S472J
R 613	(B,131,56)	RS1/16S473J
R 614	(B,149,53)	RS1/16S104J
R 615	(B,132,63)	RS1/16S102J
R 616	(B,110,55)	RS1/16S104J
R 617	(B,103,59)	RS1/16S104J
R 618	(A,123,68)	RS1/10SR102J
R 619	(B,103,61)	RS1/16S104J
R 620	(B,134,51)	RS1/16S103J
R 621	(B,142,49)	RS1/16S473J
R 622	(B,103,57)	RS1/16S223J
R 623	(B,135,46)	RS1/16S104J
R 624	(B,135,42) (P6050UB)	RS1/16S104J
R 625	(A,140,43) (P600UB, P6000UB)	RS1/16S0R0J
R 626	(B,135,44) (P6000UB)	RS1/16S104J
R 627	(A,140,44) (P600UB)	RS1/16S0R0J
R 628	(A,117,34)	RS1/16S104J
R 629	(A,106,66)	RS1/16S473J
R 641	(A,140,31)	RS1/16S104J
R 651	(A,140,59)	RS1/16S183J
R 652	(A,137,33)	RS1/16S473J
R 653	(A,135,62)	RS1/10SR102J
R 654	(A,136,35)	RS1/10SR102J
R 701	(B,63,44)	RS1/16S473J
R 702	(A,89,39)	RAB4C472J
R 703	(B,63,42)	RS1/16S104J
R 704	(B,90,44)	RS1/16S221J
R 705	(B,70,44)	RS1/16S221J
R 706	(B,90,41)	RS1/16S221J
R 707	(B,69,42)	RS1/16S221J
R 708	(B,90,39)	RS1/16S221J
R 709	(B,70,40)	RS1/16S102J
R 751	(A,22,55)	RD1/4PU102J
R 784	(B,92,54)	RS1/16S103J
R 801	(B,106,24)	RS1/16S222J
R 802	(B,114,27)	RS1/16S222J
R 803	(B,112,14)	RS1/16S222J
R 804	(B,116,27)	RS1/16S222J
R 805	(B,116,14)	RS1/16S222J
R 806	(B,108,16)	RS1/16S222J
R 807	(B,112,27)	RS1/16S104J
R 808	(B,102,17)	RS1/16S104J
R 821	(A,41,39)	RS1/16S473J
R 822	(A,44,39)	RS1/16S1R0J
R 824	(A,41,47)	RS1/10SR561J
R 831	(A,89,16)	RS1/16S331J
R 842	(A,100,24)	RS1/10SR102J
R 843	(A,100,25)	RS1/16S472J
R 851	(A,48,24)	RD1/4PU272J
R 853	(B,42,24)	RS1/16S101J
R 854	(B,42,22)	RS1/16S101J
R 855	(A,39,29)	RS1/10SR821J
R 856	(A,36,27)	RS1/16S1R0J
R 857	(A,24,30)	RS1/10SR561J
R 871	(A,51,11)	RS1/10SR102J
R 875	(A,145,35)	RAB4C102J

**Part No.****Circuit Symbol and No.**

R 901	(B,19,70)	RS1/16S223J
R 902	(B,28,73)	RS1/16S681J
R 903	(B,32,73)	RS1/16S681J
R 911	(B,19,88)	RS1/16S473J
R 921	(A,78,69)	RS1/16S104J
R 922	(A,81,64)	RS1/16S103J
R 923	(A,79,69)	RS1/16S473J
R 924	(A,82,64)	RS1/16S223J
R 925	(A,88,73)	RS1/16S472J
R 931	(B,116,65)	RS1/16S103J
R 955	(A,112,68) (P600UB)	RS1/16S103J
R 961	(A,90,102)	RS1/10SR102J
R 962	(A,89,108)	RS1/16S472J
R 964	(A,88,114)	RS1/16S153J
R 982	(A,62,126) (P600UB)	RS1/16S0R0J
R 983	(A,74,125)	RS1/4SA102J
R 984	(A,68,125)	RS1/4SA102J
<b>CAPACITORS</b>		
C 101	(B,17,132)	CKSRYB104K16
C 102	(B,26,121)	CKSRYB102K50
C 103	(B,26,123)	CKSRYB102K50
C 181	(B,122,125)	CKSRYB104K16
C 182	(A,115,122)	CKSRYB472K50
C 183	(A,118,122)	CKSRYB472K50
C 184	(A,114,117)	CKSRYB105K10
C 185	(A,115,117)	CKSRYB105K10
C 186	(A,117,117)	CKSRYB105K10
C 187	(A,118,117)	CKSRYB105K10
C 188	(A,114,105)	CKSRYB104K16
C 189	(A,113,102)	CEJQ220M16
C 201	(A,126,75)	CEJQ470M16
C 202	(B,126,77)	CKSRYB104K16
C 203	(A,137,67)	CCSRCH470J50
C 205	(A,127,71)	CKSRYB474K10
C 206	(A,132,76)	CEJQ100M16
C 207	(B,110,78)	CKSRYB105K10
C 208	(B,108,76)	CKSRYB105K10
C 209	(B,107,71)	CKSRYB105K10
C 210	(B,109,73)	CKSRYB105K10
C 211	(B,139,85)	CKSRYB224K16
C 212	(B,140,82)	CKSRYB224K16
C 213	(B,84,71)	CKSRYB105K10
C 214	(B,88,75)	CKSRYB105K10
C 215	(B,88,73)	CKSRYB105K10
C 216	(B,83,74)	CKSRYB105K10
C 217	(A,114,84)	CKSQYB475K10
C 218	(A,135,84)	CKSQYB475K10
C 219	(A,112,88)	CKSQYB475K10
C 220	(A,137,88)	CKSQYB475K10
C 221	(A,115,91)	CKSQYB475K10
C 222	(A,135,92)	CKSQYB475K10
C 224	(A,119,97)	CEJQ100M16
C 241	(A,113,97)	CEJQ470M16
C 242	(B,113,93)	CKSRYB104K16
C 243	(A,104,87)	CKSRYB224K16
C 255	(B,128,80)	CKSRYB104K16
C 301	(A,129,102)	CEJQ100M16
C 302	(A,123,102)	CEJQ100M16

**Part No.**

A

C

E

F

	<b>1</b> <b>Circuit Symbol and No.</b>	<b>2</b> <b>Part No.</b>	<b>3</b> <b>Circuit Symbol and No.</b>	<b>4</b> <b>Part No.</b>
A	C 303 (A,146,120)	CEJQ100M16	C 875 (A,70,10)	CKSRYB104K16
	C 304 (A,133,120)	CEJQ100M16	C 877 (A,56,7)	CKSRYB224K16
	C 305 (A,140,120)	CEJQ100M16	C 901 (A,21,74)	CEHAR220M16
	C 306 (A,126,120)	CEJQ100M16	C 902 (B,25,75)	CKSRYB104K16
	C 307 (A,78,83)	CEJQ220M16	C 903 (B,22,64)	CKSRYB103K50
	C 352 (A,95,121)	CKSRYB474K10	C 904 (A,31,86) 1 500 $\mu$ /16 V	CCH1201
	C 353 (A,98,121)	CKSRYB474K10	C 911 (A,22,85)	CEHAS101M10
B	C 354 (A,100,121)	CKSRYB474K10	C 912 (B,19,84)	CKSRYB103K50
	C 355 (A,93,121)	CKSRYB474K10	C 913 (A,18,98)	CEJQ101M16
	C 356 (A,85,83)	CEJQ330M10	C 931 (B,116,63)	CKSRYB105K16
	C 357 (A,95,124)	CKSQYB474K16	C 941 (B,87,91) (P6000UB,P6050UB)	CKSRYB473K50
	C 358 (A,98,124)	CKSQYB474K16	C 952 (A,71,109) (P600UB)	CKSRYB103K50
	C 359 (A,100,124)	CKSQYB474K16	C 953 (B,75,85) (P600UB)	CKSRYB473K50
	C 360 (A,93,124)	CKSQYB474K16	C 961 (A,90,114)	CKSRYB104K16
C	C 361 (A,95,128)	CKSQYB225K10	C 981 (B,52,138)	CKSRYB104K16
	C 362 (A,99,128)	CKSQYB225K10	C 982 (B,54,138)	CKSRYB104K16
	C 364 (A,91,83)	CEJQ100M16		
	C 365 (B,97,144)	CKSRYB104K16		
	C 366 (A,54,118) 3 300 $\mu$ F/16 V	CCH1486		
	C 402 (B,164,106)	CKSRYB103K50		
	C 403 (B,164,111)	CKSRYB103K50		
D	C 404 (A,160,143)	CKSRYB103K50		
	C 405 (A,157,105)	CEJQ470M6R3		
	C 406 (A,157,115)	CEJQ101M16		
	C 451 (A,155,89)	CEJQ220M16		
	C 452 (B,148,87)	CKSRYB103K50		
	C 453 (B,147,74)	CKSYB475K16		
	C 501 (A,37,59) 100 $\mu$ F/6.3 V	CCH1804		
E	C 502 (A,42,79)	CEJQ221M16		
	C 503 (A,48,52)	CKSRYB221K50		
	C 504 (A,52,65)	CKSRYB105K16		
	C 506 (A,45,57)	CKSRYB102K50		
	C 507 (A,47,59)	CKSRYB104K16		
	C 603 (B,123,66)	CCSRCH180J50		
	C 604 (B,127,66)	CCSRCH180J50		
F	C 606 (A,107,57)	CEJQ100M16		
	C 607 (B,126,55)	CKSRYB103K50		
	C 651 (A,137,62)	CKSRYB105K10		
	C 652 (A,138,34)	CKSRYB104K16		
	C 701 (B,82,20)	CKSRYB104K16		
	C 731 (A,57,45)	CEJQ220M16		
	C 732 (B,57,43)	CKSRYB103K50		
G	C 733 (B,56,28)	CKSRYB474K10		
	C 751 (A,66,48)	CEJQ101M16		
	C 752 (B,80,47)	CKSRYB102K50		
	C 753 (B,23,50)	CKSRYB473K50		
	C 781 (B,63,76)	CKSRYB104K16		
	C 782 (B,60,69)	CKSRYB104K16		
	C 821 (B,35,44)	CKSRYB473K50		
H	C 841 (B,120,27)	CKSRYB473K50		
	C 852 (A,51,19)	CEJQ470M25		
	C 853 (B,47,29)	CKSRYB103K50		
	C 854 (A,42,19)	CCSRCH331J50		
	C 855 (A,42,29)	CKSRYB104K16		
	C 856 (A,42,34)	CEJQ101M16		
	C 858 (B,34,34)	CKSRYB104K16		
I	C 871 (B,149,29)	CCSRCH101J50		
	C 872 (B,146,32)	CKSRYB102K50		
	C 873 (B,149,22)	CCSRCH101J50		
	C 874 (A,73,7)	CEJQ220M16		
	C 881 (A,162,6)	Push Switch	CSG1155	
	C 881 (A,42,23)	Switch (MULTI CONTROL)	CSX1120	
	C 881 (A,58,8)	Push Switch	CSG1155	
J	C 882 (A,10,38)	Push Switch	CSG1155	
	C 883 (A,157,5)	Push Switch	CSG1155	
	C 884 (A,115,5)	Push Switch	CSG1155	
	C 885 (A,139,5)	Push Switch	CSG1155	
	C 886 (A,25,8)	Push Switch	CSG1155	
	C 887 (A,25,38)	Push Switch	CSG1155	
	C 888 (A,10,8)	Push Switch	CSG1155	

Circuit Symbol and No.Part No.

S 1839 (A,58,38) Push Switch

CSG1155

**RESISTORS**

R 1801 (B,102,38)  
 R 1802 (B,102,36)  
 R 1803 (B,157,28)  
 R 1811 (B,54,27)  
 R 1812 (B,29,26)

RS1/16S222J  
 RS1/16S222J  
 RS1/16S333J  
 RS1/16S103J  
 RS1/16S333J

R 1813 (B,29,28)  
 R 1814 (B,54,24)  
 R 1815 (B,52,30)  
 R 1816 (B,29,23)  
 R 1818 (B,66,11)

RS1/16S103J  
 RS1/16S102J  
 RS1/16S332J  
 RS1/16S102J  
 RS1/16S103J

R 1819 (B,54,16)  
 R 1834 (B,66,6)  
 R 1835 (B,20,15)  
 R 1836 (B,18,14)  
 R 1839 (B,29,14)

RS1/16S222J  
 RS1/16S821J  
 RS1/16S821J  
 RS1/16S152J  
 RS1/16S681J

R 1840 (B,30,14)  
 R 1841 (B,30,11)  
 R 1843 (B,32,14)  
 R 1844 (B,34,14)  
 R 1901 (A,98,33)

RS1/16S681J  
 RS1/16S271J  
 RS1/16S681J  
 RS1/16S681J  
 RS1/16S103J

R 1902 (A,93,25)  
 R 1903 (B,81,15)  
 R 1904 (B,84,27)  
 R 1905 (B,66,21)  
 R 1906 (B,95,34)

RS1/16S473J  
 RS1/16S154J  
 RAB4CQ102J  
 RS1/16S104J  
 RAB4CQ473J

R 1907 (B,93,11)  
 R 1908 (A,93,16)  
 R 1909 (B,98,34)  
 R 1910 (B,141,13)  
 R 1911 (B,134,13)

RAB4CQ102J  
 RS1/16S221J  
 RAB4CQ473J  
 RAB4CQ101J  
 RAB4CQ101J

R 1912 (B,130,15)  
 R 1913 (A,102,33)  
 R 1914 (B,102,34)  
 R 1915 (B,147,26)  
 R 1916 (A,147,16)

RAB4CQ101J  
 RS1/16S101J  
 RS1/16S101J  
 RAB4CQ101J  
 RAB4CQ101J

R 1917 (A,144,16)  
 R 1918 (A,131,30)  
 R 1919 (A,106,33)  
 R 1920 (A,108,23)  
 R 1931 (B,84,30)

RAB4CQ101J  
 RAB4CQ101J  
 RAB4CQ101J  
 RAB4CQ101J  
 RS1/16S101J

R 1932 (B,75,36)  
 R 1933 (B,72,27)  
 R 1951 (B,75,10)  
 R 1961 (A,135,25)  
 R 1962 (A,135,18)

RS1/16S103J  
 RS1/16S2R2J  
 RS1/16S222J  
 RS1/16S333J  
 RS1/16S183J

R 1963 (A,137,23)  
 R 1964 (A,111,22)  
 R 1965 (A,108,20)  
 R 1966 (A,128,22)

RS1/16S563J  
 RS1/16S392J  
 RAB4CQ101J  
 RS1/16S5101D

**CAPACITORS**

C 1901 (A,89,23)  
 C 1902 (B,81,17)  
 C 1903 (B,106,25)  
 C 1921 (B,157,31)  
 C 1931 (B,78,26)

CKSRYB103K50  
 CKSRYF104Z25  
 CKSRYB103K50  
 CKSRYB103K50  
 CKSYB106K6R3

Circuit Symbol and No.Part No.

C 1951 (B,75,18)  
 C 1952 (B,77,10)  
 C 1953 (B,81,12)  
 C 1963 (A,113,22)  
 C 1964 (B,121,19)

C 1965 (A,127,22)  
 C 1966 (A,124,21)

**C****Unit Number : CWX3526****Unit Name : CD Core Unit****(S10.5COMP2-iPod)****MISCELLANEOUS**

IC 201 (A,36,46) IC	PE5611B
IC 202 (A,24,30) IC	S-93C66BD0I-J8
IC 205 (B,25,47) IC	341S2094
IC 301 (A,29,15) IC	BA5839FP
Q 101 (B,58,70) Transistor	2SA1577
Q 102 (B,49,58) Chip Transistor	2SB1689
Q 201 (B,27,54) Transistor	2SA1577
X 201 (A,23,38) Ceramic Resonator	16.934 MHz CSS1603
X 204 (B,17,45) Oscillator	32.768 kHz CSS1735
X 205 (B,34,63) Oscillator	48.000 MHz CSS1753
S 901 (A,55,37) Switch(HOME)	CSN1067
S 903 (B,20,59) Switch(DSCSNS)	CSN1067
S 904 (B,41,68) Switch(12EJ)	CSN1068
S 905 (B,25,70) Switch(8EJ)	CSN1068

**RESISTORS**

R 101 (B,61,74)	RS1/10SR2R4J
R 102 (B,61,72)	RS1/10SR2R4J
R 103 (B,61,71)	RS1/10SR2R7J
R 104 (B,54,67)	RS1/16SS222J
R 105 (B,45,58)	RS1/16SS102J
R 107 (B,52,60)	RS1/16SS105J
R 201 (A,20,33)	RS1/16S472J
R 202 (A,27,33)	RS1/16SS473J
R 203 (A,51,44)	RS1/16S473J
R 204 (A,24,58)	RS1/16SS221J
R 206 (B,10,27)	RS1/16SS104J
R 210 (B,10,23)	RS1/16SS102J
R 214 (B,50,50)	RS1/16SS472J
R 216 (B,49,49)	RS1/16SS472J
R 221 (A,51,48)	RS1/16SS103J
R 222 (A,51,46)	RS1/16SS103J
R 223 (B,14,43)	RS1/16SS473J
R 225 (A,51,50)	RS1/16SS103J
R 226 (A,51,51)	RS1/16SS393J
R 227 (B,48,52)	RS1/16SS562J
R 228 (B,45,52)	RS1/16SS122J

R 229 (B,47,54)	RS1/16SS472J
R 230 (B,22,25)	RS1/16SS0R0J
R 232 (B,46,52)	RS1/16SS122J
R 233 (B,26,59)	RS1/16SS103J
R 234 (B,23,26)	RS1/16SS473J
R 235 (A,26,59)	RS1/16SS473J
R 237 (A,24,35)	RS1/16SS151J

	<b>1</b> <b>Circuit Symbol and No.</b>	<b>2</b> <b>Part No.</b>	<b>3</b> <b>Circuit Symbol and No.</b>	<b>4</b> <b>Part No.</b>
A	R 240 (B,14,26)	RS1/16S473J	C 218 (A,50,52)	CKSSYB473K10
	R 241 (B,14,25)	RS1/16SS103J	C 219 (A,47,54)	CKSSYB104K10
	R 243 (A,22,25)	RS1/16S0R0J	C 220 (A,48,54)	CKSSYB182K50
	R 244 (B,22,55)	RS1/16SS473J	C 221 (A,46,54)	CKSSYB104K10
	R 250 (B,25,52)	RS1/16SS101J	C 222 (B,46,54)	CCSSCH560J50
	R 251 (B,22,51)	RS1/16SS101J	C 223 (B,48,54)	CCSSCH4R0C50
	R 252 (B,21,48)	RS1/16SS101J		
	R 254 (A,26,64)	RS1/16SS104J	C 224 (A,45,56)	CKSSYB104K10
	R 255 (A,26,63)	RS1/16SS104J	C 226 (A,42,59)	CCSSCH680J50
	R 256 (A,26,62)	RS1/16SS104J	C 227 (A,42,61)	CCSSCH470J50
B	R 259 (A,28,66)	RS1/16SS0R0J	C 228 (B,41,62)	CKSSYB103K16
	R 261 (A,26,65)	RS1/16SS104J	C 229 (B,48,60)	CKSSYB104K10
	R 262 (A,30,60)	RS1/16SS0R0J	C 236 (A,50,58)	CKSSYB104K10
	R 263 (A,28,63)	RS1/16SS0R0J	C 239 (B,47,52)	CCSSCH220J50
	R 273 (B,19,48)	RS1/16SS103J	C 240 (A,38,61)	CKSSYB104K10
	R 274 (B,18,51)	RS1/16SS104J	C 243 (B,22,41)	CKSQYB475K6R3
	R 275 (B,19,51)	RS1/16SS104J	C 250 (A,52,48)	CKSSYB102K50
	R 276 (B,20,51)	RS1/16SS104J	C 251 (A,52,46)	CKSSYB102K50
	R 277 (B,24,52)	RS1/16SS103J	C 260 (A,28,61)	CCSSCH8R0D50
	R 278 (B,27,51)	RS1/16SS1003D	C 261 (B,34,67)	
C	R 279 (B,23,52)	RS1/16SS104J	C 262 (B,32,66)	CCSSCH8R0D50
	R 282 (A,30,61)	RS1/16SS240J	C 290 (B,22,43)	CKSSYB104K10
	R 283 (A,29,61)	RS1/16SS240J	C 291 (B,17,42)	CCSSCH5R0C50
	R 284 (B,30,63)	RS1/16SS153J	C 292 (B,17,48)	CCSSCH5R0C50
	R 285 (B,28,63)	RS1/16SS153J	C 293 (B,44,61)	CKSSYB102K50
	R 289 (B,19,45)	RS1/16SS0R0J	C 294 (B,25,41)	CKSSYB103K16
	R 291 (B,43,62)	RS1/16SS272J	C 295 (B,56,61)	CKSQYB106K6R3
	R 292 (B,25,43)	RS1/16SS221J	C 296 (B,56,63)	CKSQYB106K6R3
	R 293 (B,27,52)	RS1/16SS472J	C 303 (A,36,19)	CKSSYB472K25
	R 294 (A,32,63)	RS1/16SS471J	C 304 (A,36,21)	CKSSYB223K16
D	R 295 (B,55,64)	RS1/16SS103J	C 307 (A,22,11)	CKSRYB104K16
	R 307 (A,35,19)	RS1/16SS183J	C 308 (B,11,18)	CKSRYB105K10
	R 308 (A,38,19)	RS1/16SS183J	C 703 (B,15,35)	CCSSCH101J50
	R 309 (A,35,21)	RS1/16SS183J	C 704 (B,12,36)	CKSSYB102K50
	R 310 (A,38,22)	RS1/16SS183J	C 711 (A,31,25)	CKSSYB104K10
	R 601 (B,30,31)	RS1/16SS0R0J		
	R 602 (B,27,31)	RS1/16SS0R0J		
	R 606 (B,28,23)	RS1/16S0R0J		
	R 701 (B,12,37)	RS1/16SS221J		
	R 702 (A,24,56)	RS1/16SS221J		
E	R 708 (B,15,37)	RS1/16S0R0J		
	R 712 (B,15,54)	RS1/16SS0R0J		
	R 713 (B,15,53)	RS1/16SS0R0J		
	C 106 (B,57,67)	CKSQYB475K6R3		
	C 201 (A,27,30)	CKSRYB104K16		
	C 202 (A,28,57)	CKSSYB104K10		
	C 204 (A,24,59)	CKSSYB103K16		
	C 205 (B,27,41)	CKSQYB475K6R3		
	C 206 (A,23,41)	CKSSYB104K10		
	C 207 (A,25,38)	CKSRYB104K16		
F	C 209 (B,36,35)	CEVW220M6R3		
	C 210 (B,29,37)	CKSSYB104K10		
	C 211 (A,28,35)	CKSSYB104K10		
	C 212 (A,29,30)	CKSRYB104K16		
	C 213 (A,46,39)	CKSSYB104K10		
	C 214 (A,29,34)	CKSSYB104K10		
	C 216 (A,51,52)	CKSSYB332K50		
	C 217 (A,48,52)	CKSSYB104K10		

**D**

**Unit Number : CWS1389**  
**Unit Name : Switch Unit**

#### **MISCELLANEOUS**

S 1	(A,6,14) Switch(OPEN)	CSN1051
S 2	(A,32,12) Spring Switch(CLOSE)	CSN1052

#### **Miscellaneous Parts List**

M 1	Pickup Unit(P10.5)(Service)	CXX1942
M 2	Motor Unit(SPINDLE)	CXC7134
	Motor Unit(LOADING/CARRIAGE)	CXC4026
	Motor Unit(FLAP)	XXA7400

#### **CAPACITORS**

E	C 106 (B,57,67)	CKSQYB475K6R3
	C 201 (A,27,30)	CKSRYB104K16
	C 202 (A,28,57)	CKSSYB104K10
	C 204 (A,24,59)	CKSSYB103K16
	C 205 (B,27,41)	CKSQYB475K6R3
	C 206 (A,23,41)	CKSSYB104K10
	C 207 (A,25,38)	CKSRYB104K16
	C 209 (B,36,35)	CEVW220M6R3
	C 210 (B,29,37)	CKSSYB104K10
	C 211 (A,28,35)	CKSSYB104K10
	C 212 (A,29,30)	CKSRYB104K16
F	C 213 (A,46,39)	CKSSYB104K10
	C 214 (A,29,34)	CKSSYB104K10
	C 216 (A,51,52)	CKSSYB332K50
	C 217 (A,48,52)	CKSSYB104K10